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ABSTRACT

One of the responsibilities of the Utah Department of Employment Security is the development and dissemination of information concerning occupational manpower requirements. Highlighted in this document are the occupational employment data for employees in Utah's nonagricultural payrolls. Data entered on an occupational industry matrix obtained through survey responses and follow-up contacts formed the basis for analyses. Employment projections include: (1) More than 119,400 new nonagricultural payroll jobs are expected in Utah between 1971 and 1980, (2) Professional, technical and managerial jobs are expected to increase by about 37 percent, by 1980, (3) Nonagricultural occupations will increase to more than 23 percent, (4) Clerical occupations are expected to grow by about 21,950, (5) Service occupations will increase by 46 percent, (6) Bench work occupations will increase by 52 percent, and (7) Agricultural, environmental, and industrial-technical occupations will increase by 27 percent. (Author/SN)

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OCCUPATIONS OF EMPLOYEES

ON UTAH NONAGRICULTURAL PAYROLLS

1960 - 1980

Prepared by

Reports and Analysis Section
Utah Department of Employment Security

June 1973

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INTRODUCTION

One of the responsibilities of the Utah Department of Employment Security is the development and dissemination of information concerning occupational manpower requirements. This publication presents occupational employment data for employees on Utah nonagricultural payrolls. These data are some that are necessary in assessing trends in occupational employment and in assessing future manpower needs. They include estimates of employment by occupation for 1960, 1967, and 1971 and a 1980 projection. This publication updates one published in April 1969, entitled Detailed Occupations of Nonagricultural Wage and Salaried Jobs in Utah, 1960-1975.

METHODOLOGY

Occupational employment estimates and projections in this publication are a product of Utah's occupation-industry matrix. This matrix consists of a computer-housed set of tables for 170 industries that shows a percentage distribution of employment among the occupations in each industry. A computer program was designed to allocate total employment to the various occupations in each industry. Identical occupations from each industry are summed to obtain a State total employment figure for each occupation.

The Utah Department of Employment Security has developed industry-occupational patterns (the percentage distribution of employment among occupations in an industry) over a period of several years, utilizing data collected by means of an establishment mail survey. Occupational data collected by this survey are classified according to definitions in the Dictionary of Occupational Titles.[1] The universe of establishments for the survey includes all nonagricultural employers in Utah. Not included are self-employed, unpaid family, and domestic workers and agricultural workers. Establishments in the survey are stratified by industry and by employment size. All large firms are included in the survey; small firms are selected randomly for inclusion.

The forms used in the survey include (1) a cover letter which explains the nature and purpose of the survey, (2) a set of instructions and definitions, and (3) an unstructured questionnaire on which employers are asked to list job titles for all employees in their establishment and the number of workers in each job. Two weeks following the initial mailing of survey correspondence, a

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[1]United States Department of Labor, Dictionary of Occupational Titles, (3rd Edition): Vol. I and II. (Washington, D. C., Government Printing Office.)

follow-up letter is mailed to nonrespondents. Additional follow-up contacts are made by telephone, and personal visits are made to large firms.

Responses on the questionnaires are edited for completeness and accuracy. The editing process includes comparing total reported employment with benchmark employment for the establishment in question to insure that the responses contain the information that was requested. Also, a "nature of business statement" and the occupations reported by the employer are reviewed to insure that the firm has been given the proper industry classification. Employers' job titles are also reviewed, and respondents are contacted to interpret unclear job titles and to resolve any other discrepancies.

INDUSTRY EMPLOYMENT FIGURES

The industry employment figures in this publication for 1960, 1967, and 1971 were taken directly from records of the Department of Employment Security. Private industry employment, obtained as a by-product of the administration of the Employment Security Act, was tabulated from quarterly contribution reports submitted by Utah employers subject to this act. Federal government employment data were obtained from required reports. Data for state and local government units, public schools, railroads, and nonprofit institutions were obtained from voluntary reports submitted by these employers.

Employment projections for 1980 are based on long-term employment trends in Utah industries. Several assumptions are made in making these projections: (1) that no major event will alter substantially the rate and nature of economic growth; (2) that economic and social patterns and relationships will continue to change at about the same rate as in the past; and (3) that scientific technological advancement will continue at about the same rate as in recent years.

PROJECTED OCCUPATIONAL EMPLOYMENT CHANGES

More than 119,400 new nonagricultural payroll jobs are expected in Utah between 1971 and 1980, an increase of 32 percent. Professional, technical, and managerial jobs are expected to continue their long-term growth trend and grow by more than 37 percent during this same period. In 1960, these occupations accounted for just over 20 percent of total nonagricultural payroll jobs; in 1971, they accounted for more than 22 percent; and by 1980, they are expected to constitute more than 23 percent. (See chart at the end of this discussion.)

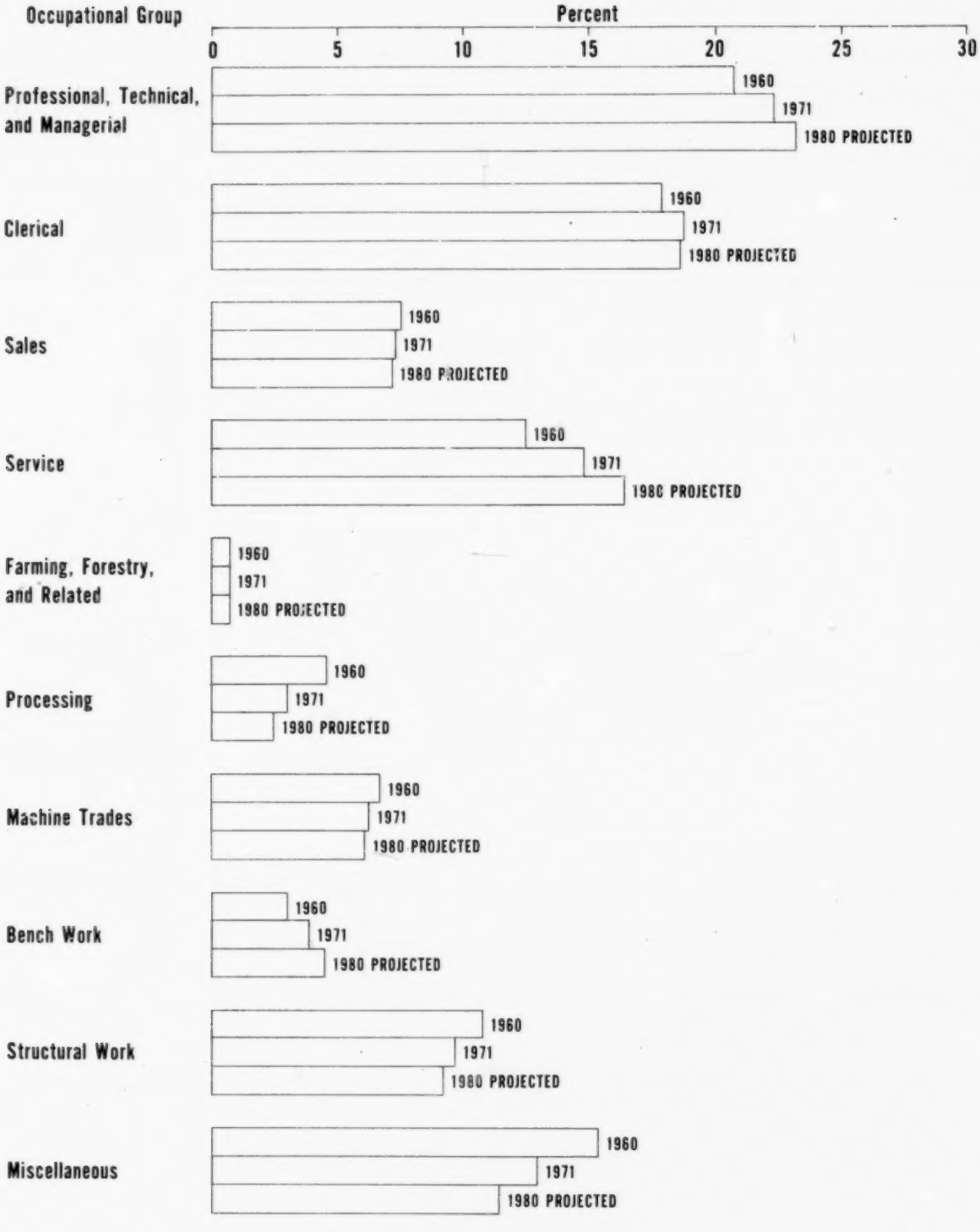
Clerical occupations during the 1971-1980 period are expected to grow by 21,950, a rate of growth just slightly less than that for total nonagricultural payroll employment. Even though sales occupations will show significant growth (8,450 jobs) between 1971 and 1980, they will still be expanding at a slower rate than total nonagricultural payroll employment.

Other occupational groups that are projected to grow at a slower rate (approximately 27 percent) than total nonagricultural employment are farming, forestry, and related occupations; machine trades occupations; and structural work occupations. Occupations classified in the miscellaneous category and processing occupations are expected to grow very little during the 1971 to 1980 period - 15 percent and 6 percent, respectively. In contrast, service occupations are expected to increase by 25,300, a gain of nearly 46 percent; and bench work occupations are expected to increase by 7,530, an increase of 52 percent.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT
BY MAJOR OCCUPATIONAL GROUP

Industry	1960	1967	1971	1980
Total	264,950	331,160	370,870	490,300
Professional, Technical, and Managerial	54,800	73,830	82,740	113,920
Clerical	47,360	61,860	69,540	91,490
Sales	20,110	23,700	27,330	35,780
Service	33,080	46,240	55,310	80,610
Farming, Forestry, and Related	1,840	2,390	2,670	3,410
Processing	12,160	11,380	11,280	11,950
Machine Trades	17,660	21,700	23,290	29,750
Bench Work	8,130	12,540	14,460	21,990
Structural Work	28,890	31,360	35,930	45,740
Miscellaneous	40,920	46,160	48,320	55,660

Percent of Nonagricultural Payroll Employment in Major Occupational Groups



OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

The table on the following pages shows employment by occupation for employees on nonagricultural payrolls in Utah. The occupational codes listed in the left-hand column are those used by the Dictionary of Occupational Titles.

The employment totals for the two- and three-digit occupational groups are estimates of total state employment for that group. Included in these totals are employment counts for occupations that contained less than ten employees in 1960. These occupations are not shown with those detailed below the three-digit group totals. Therefore, the detail listed below the three-digit total will not, in all cases, add to the total.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
00 and 01	*OCCUPATIONS IN ARCHITECTURE AND ENGINEERING*	*9,420*	*10,780*	*10,720*	*14,270*
001	*Architectural Occupations*	*340*	*400*	*540*	*790*
	Architect	160	190	260	390
	Architectural Draftsman	180	200	280	400
002	*Aeronautical Engineering Occupations*	*200*	*200*	*140*	*120*
	Aeronautical Engineer	60	90	70	60
	Engineering Designer, Aircraft Struc.	70	60	30	30
	Cost Analysis Engineer	10	10	10	10
	Missile Test Engineer	40	40	20	10
003	*Electrical Engineering Occupations*	*1,760*	*2,020*	*1,600*	*2,120*
	Electrical Engineer	250	350	300	520
	Electronic Engineer	400	410	220	220
	Rocket-Engine Test Engineer	20	20	20	20
	Telephone Engineer	240	260	280	290
	Electrical Technician	160	140	60	50
	Electronic Technician	440	580	480	700
	Radio Engineer	140	150	160	190
	Electrical Draftsman	30	40	30	40
	Electronic Draftsman	30	20	*	*
	Instrumentation Technician	10	*	*	*
005	*Civil Engineering Occupations*	*1,650*	*2,020*	*2,260*	*3,270*
	Civil Engineer	370	460	520	720
	Construction Engineer	390	470	480	800
	Highway Engineer	240	330	370	530
	Purification Plant Operator	50	70	60	60
	Structural Engineer	100	120	140	200
	Civil Draftsman	440	500	600	870
	Structural Draftsman	30	30	30	40
006	*Ceramic Engineering Occupations*	*20*	*40*	*30*	*80*
	Ceramic Engineer	20	40	30	80
007	*Mechanical Engineering Occupations*	*1,450*	*1,480*	*1,530*	*2,020*
	Mechanical Engineer	930	900	880	1,130
	Tool Engineer	30	30	30	40
	Die Designer	40	40	40	40
	Engineering Assist. Mech. Equip.	60	60	70	100
	Mechanical Engineering Technician	180	180	160	150
	Plant Engineer	20	20	20	30
	Mechanical Draftsman	160	220	290	480

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
008	*Chemical Engineering Occupations*	*270*	*220*	*200*	*210*
	Chemical Engineer	270	220	200	210
010	*Mining & Petroleum Engineering Occ.*	*460*	*390*	*430*	*500*
	Mining Engineer	100	100	110	160
	Petroleum Engineer	50	40	60	60
	Safety Engineer, Mines	10	10	10	20
	Sales Engineer, Oil-Well Services	30	20	20	20
	Field Engineer	20	20	20	20
	Observer, Seismic Prospecting	10	*	10	*
	Petroleum Engineer, Chief	90	100	100	100
	Draftsman, Directional Survey	10	10	20	20
	Draftsman, Mine	40	30	30	30
	Test-Engine Evaluator	50	30	30	20
011	*Metallurgy & Metallurgical Eng. Occ.*	*160*	*150*	*140*	*210*
	Metallurgist Extractive	100	100	90	160
	Metallurgist, Physical	10	10	10	10
	Metallurgist Assistant	20	*	*	*
	Tester	10	10	*	*
012	*Industrial Engineering Occupations*	*1,150*	*1,390*	*1,220*	*1,400*
	Safety Engineer	70	90	80	80
	Director, Quality Control	60	70	70	120
	Methods Engineer, Chief	50	60	60	70
	Systems Analyst, Business	240	300	340	460
	Manufacturing Engineer	60	50	20	20
	Engineering Liaison Man	40	30	10	*
	Factory Lay-Out Man	10	10	*	10
	Industrial Engineer	80	110	90	90
	Material Scheduler	20	20	*	*
	Process-Description Writer	60	50	10	*
	Production Engineer	60	40	40	50
	Production Planner	200	250	210	240
	Time-Study Engineer	20	20	20	40
	Industrial Engineering Technician	140	250	220	170
013	*Agricultural Engineering Occupations*	*20*	*30*	*30*	*30*
	Agriculture Engineer	20	30	30	30
017	*Draftsmen, N.E.C.*	*560*	*680*	*790*	*1,100*
	Draftsman, Commercial	130	200	290	470
	Draftsman, Detail	40	60	80	130
	Draftsman, Map	90	110	110	140

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Draftsman, Oil and Gas	70	50	50	60
	Multiplex-Projection Topographer	30	40	40	30
	Technical Illustrator	80	90	70	80
	Tracer	50	50	60	80
018	*Surveyors, N.E.C.*	*870*	*1,110*	*1,250*	*1,870*
	Chief of Party	80	100	120	170
	Geodetic Computer	50	60	60	110
	Instrument Man	140	180	210	300
	Level Man	80	100	110	160
	Surveyor	70	80	100	150
	Rodman	180	230	260	380
	Chainman	260	340	370	570
019	*Occupations in Arch. and Eng., N.E.C.*	*500*	*640*	*550*	*550*
	Landscape Architect	30	40	40	50
	Traffic Engineer	30	40	40	60
	Quality-Control Technician	420	530	430	370
02	*OCCUPATIONS IN MATHEMATICS AND PHYSICAL SCIENCES*	*2,480*	*3,000*	*3,420*	*4,930*
020	*Occupations in Mathematics*	*990*	*1,410*	*1,780*	*2,670*
	Engineering Analyst	120	130	110	100
	Information Scientist	30	20	20	20
	Mathematician	120	160	170	230
	Operations, Research Analyst	180	300	260	200
	Project Director, Bus. Data Proces.	80	70	60	60
	Mathematical Technician	40	30	30	30
	Programmer, Business	180	380	770	1,500
	Programmer, Engineering & Scientific	60	90	130	210
	Statistician, Applied	90	130	140	190
	Statistician, Business & Economics	20	20	30	30
	Statistician, Phy. Sci. & Engineering	20	20	20	20
	Weight Analyst	10	20	20	30
022	*Occupations in Chemistry*	*560*	*580*	*600*	*770*
	Chemist, Agricultural	20	20	30	30
	Chemist, Analytical	20	10	10	10
	Chemist, Dye	20	10	*	*
	Chemist, Food	20	30	30	30
	Chemist, Inorganic	20	40	30	20
	Chemist, Organic	90	80	90	100

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Chemist, Physical	190	200	230	360
	Chemical-Laboratory Chief	80	70	60	60
	Assayer	50	60	60	70
	Chemical-Laboratory Technician	40	50	50	60
023	*Occupations in Physics*	*50*	*70*	*60*	*70*
	Physicist	40	60	50	60
024	*Occupations in Geology*	*370*	*280*	*310*	*410*
	Geologist	250	200	240	300
	Geologist, Petroleum	20	*	*	10
	Geophysicist	70	40	40	60
025	*Occupations in Meteorology*	*90*	*110*	*100*	*190*
	Meteorologist	70	80	80	130
	Weather Observer	20	30	30	60
029	*Occ. in Math & Phy. Sci., N.E.C.*	*420*	*550*	*570*	*820*
	Laboratory Tester	220	320	330	520
	Tester	60	40	30	20
	Laboratory Tester	140	180	200	270
04	*OCCUPATIONS IN LIFE SCIENCES*	*1,020*	*1,500*	*1,580*	*2,000*
040	*Occ. In Agricultural Sciences*	*480*	*600*	*590*	*580*
	Argonomist	20	20	30	40
	Forest Ecologist	210	270	260	230
	Forester	180	220	220	190
	Range Manager	50	60	60	80
	Soil Conservationist	10	10	10	30
041	*Occupations in Biological Sciences*	*130*	*180*	*180*	*250*
	Biochemist	20	20	20	40
	Biologist	40	60	60	80
	Entomologist	20	30	20	20
	Microbiologist	20	40	40	40
	Fish Culturist	10	10	20	20
045	*Occupations in Psychology*	*390*	*690*	*780*	*1,140*
	Counselor	270	410	480	650
	Psychologist, Clinical	30	40	50	80
	Psychologist, Counseling	10	20	20	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Psychologist, School	20	30	40	50
	Residence Counselor	50	160	170	280
05	*OCCUPATIONS IN SOCIAL SCIENCES*	*100*	*110*	*110*	*170*
050	*Occupations in Economics*	*80*	*80*	*80*	*120*
	Economist	10	10	10	20
	Market-Research Analyst	40	40	40	60
	Price Economist	10	10	10	10
07	*OCCUPATIONS IN MEDICINE AND HEALTH*	*4,610*	*7,190*	*8,720*	*14,120*
070	*Physicians and Surgeons*	*330*	*490*	*550*	*930*
	General Practitioner	210	300	340	590
	Intern	50	70	80	140
	Medical Officer	20	30	30	40
	Physician, Occupational	20	20	20	30
072	*Dentistry*	*20*	*40*	*40*	*70*
	Dentist	20	30	40	60
074	*Pharmacists*	*220*	*310*	*370*	*540*
	Pharmacist	210	290	350	500
	Pharmacy Helper	10	20	20	40
075	*Registered Nurses*	*1,830*	*2,820*	*3,380*	*5,580*
	Director, Nursing Service	20	30	40	60
	Nurse, Head	80	160	190	320
	Nurse, Instructor	10	20	20	40
	Nurse, School	20	40	40	60
	Nurse, Staff, Public Health	120	140	150	210
	Nurse, Supervisor	30	60	70	120
	Nurse, Supervisor, Public Health Nursing	10	20	20	40
	Nurse, Anesthetist	20	30	30	50
	Nurse, General Duty	1,250	1,940	2,310	3,960
	Nurse, Office	230	340	440	630
	Nurse, Staff, Occupational	20	30	20	20
077	*Dietitians*	*50*	*80*	*100*	*270*
	Dietitian	30	50	60	100

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
078	*Occ. in Medical & Dental Technology*	*620*	*990*	*1,200*	*1,990*
	Medical Technologist, Chief	10	10	20	30
	Biochemistry Technologist	40	60	70	110
	Medical Technologist	250	400	480	800
	Microbiology Technologist	10	10	10	30
	Dental Hygienist	40	60	80	110
	Electrocardiograph Technician	10	20	30	50
	Electroencephalograph Technician	20	20	30	50
	Prosthetist-Orthotist	10	20	20	30
	Radiologic Technologist	120	200	240	390
	Medical Laboratory Assistant	80	140	170	290
079	*Occ. in Medicine & Health, N.E.C.*	*1,540*	*2,450*	*3,070*	*4,830*
	Speech Clinician	10	20	20	30
	Speech-and-Hearing Clinician	50	80	100	130
	Occupational Therapist	10	20	30	50
	Inhalation Therapist	10	30	30	50
	Medical Assistant	140	200	260	390
	Dental Assistant	350	550	750	1,060
	Nurse, Licensed Practical	720	1,170	1,430	2,360
	Physical Therapist	40	70	80	140
	Surgical Technician	50	70	90	160
	Diet Clerk	60	120	140	240
09	*OCCUPATIONS IN EDUCATION*	*12,110*	*20,040*	*23,860*	*33,550*
090	*Occ. in College & University Edu.*	*2,740*	*5,630*	*6,950*	*10,990*
	Academic Dean	30	70	90	140
	Dean of Students	20	40	50	80
	President, Educational Institution	10	20	30	40
	Department Head, College or Univ.	30	60	70	110
	Director of Admissions	30	40	40	80
	Director of Institutional Research	20	30	40	70
	Faculty Member, College or University	1,430	2,980	3,660	5,750
	Teacher, Technical Education	10	40	50	90
	Graduate Assistant	1,120	2,280	2,850	3,290
091	*Occ. in Secondary School Education*	*4,300*	*6,500*	*7,670*	*10,050*
	Principal	340	500	600	780
	Superintendent Schools	30	50	60	80
	Teacher, Secondary School	3,920	5,930	6,990	9,160

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
092	*Occ. in Pri. School & Kind. Edu.*	*4,230*	*6,410*	*7,560*	*9,880*
	Teacher, Elementary School	4,110	6,220	7,330	9,590
	Teacher, Kindergarten	120	190	220	290
094	*Occ. in Edu. of the Handicapped*	*180*	*310*	*360*	*510*
	Teacher, Handicapped Children	60	100	130	190
	Teacher, Mentally Retarded	110	190	210	300
096	*Home Economist & Farm Advisors*	*60*	*70*	*70*	*90*
	Home Economists	60	60	60	80
097	*Occ. in Vocational Edu., N.E.C.*	*350*	*690*	*740*	*1,290*
	Instructor, Vocational Training	340	670	720	1,260
099	*Occ. in Education, N.E.C.*	*250*	*430*	*510*	*740*
	Supervisor, Education	170	260	310	420
	Audiovisual Specialist	10	20	30	40
	Educational Specialist	30	60	80	120
	Athletic Coach	10	30	30	50
10	*OCC. IN MUSEUM, LIBRARY, & ARCHIVAL SCI.*	*540*	*790*	*940*	*1,290*
100	*Librarians*	*370*	*530*	*610*	*840*
	Librarian	310	450	520	700
	Medical-Record Librarian	30	40	50	90
101	*Archivist*	*60*	*80*	*100*	*140*
	Archivist	60	80	100	140
109	*Occ. in Muse., Libr., & Arch. Sci., N.E.C.*	*110*	*180*	*220*	*300*
	Research Assistant	110	170	210	300
11	*OCCUPATIONS IN LAW AND JURISPRUDENCE*	*440*	*580*	*680*	*980*
110	*Lawyers*	*250*	*340*	*420*	*590*
	Lawyers	230	310	390	540
111	*Judges*	*110*	*130*	*140*	*190*
	Judge	40	50	50	70
	Magistrate	70	80	90	120

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
119	*Occ. in Law & Jurisprudence, N.E.C.*	*80*	*110*	*120*	*200*
	Law Clerk	80	100	100	180
12	*OCCUPATIONS IN RELIGION AND THEOLOGY*	*890*	*990*	*1,300*	*1,390*
120	*Clergymen*	*300*	*310*	*320*	*400*
	Clergymen	300	310	320	400
129	*Occ. in Religion & Theology, N.E.C.*	*590*	*680*	*980*	*990*
	Theology Teachers	540	620	890	900
13	*OCCUPATIONS IN WRITING*	*490*	*610*	*630*	*850*
132	*Writer and Editors, Publications*	*300*	*400*	*470*	*690*
	Editor, Trade or Tech. Publication	30	30	40	50
	Supervisor, Publications	10	10	*	*
	Editor, Magazine	20	20	30	40
	Copy Writer	20	30	30	40
	Editorial Writer	20	30	40	50
	Reporter	130	180	210	340
	Copy Reader	40	50	60	90
139	*Occupations in Writing, N.E.C.*	*160*	*180*	*130*	*120*
	Writer, Technical Publications	160	180	130	110
14	*OCCUPATIONS IN ART*	*390*	*500*	*560*	*760*
141	*Commercial Artists*	*90*	*110*	*130*	*180*
	Advertising Lay-Out Man	30	40	40	60
	Fashion Artist	20	30	30	40
	Illustrator	20	30	40	50
142	*Designers*	*110*	*120*	*130*	*170*
	Manager, Display	10	10	10	20
	Interior Designer & Decorator	50	50	50	60
	Display Artist	20	20	20	20
143	*Occupations in Photography*	*170*	*240*	*260*	*350*
	Cameraman	20	20	20	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Manager, Photograph Studio or Gallery	10	20	20	20
	Photographer, Commercial	90	130	140	210
	Photographer, Portrait	10	10	10	20
	Photographer, Scientific	30	40	40	30
144	*Painter and Related Occupations*	*10*	*20*	*30*	*50*
	Painter	10	20	30	40
15	*OCC. IN ENTERTAINMENT AND RECREATION*	*690*	*990*	*1,170*	*1,590*
150	*Occupations in Dramatics*	*40*	*50*	*60*	*70*
	Actor	30	40	50	60
151	*Occupations in Dancing*	*30*	*50*	*60*	*80*
	Instructor, Dancing	30	40	50	70
152	*Occupations in Music*	*220*	*340*	*410*	*590*
	Teacher, Music	30	60	70	150
	Musician, Instrumental	190	280	340	430
153	*Occupations in Athletics & Sports*	*230*	*360*	*430*	*600*
	Golf Professional	30	30	40	50
	Instructor, Physical	60	90	120	150
	Instructor, Physical Education	30	60	60	90
	Instructor, Swimming	40	60	70	90
	Umpire	30	70	90	140
	Athlete	30	40	50	70
159	*Occ. in Entertain. & Recre., N.E.C.*	*170*	*190*	*210*	*250*
	Producer	20	20	30	30
	Announcer	130	140	160	180
16	*OCC. IN ADMINISTRATIVE SPECIALIZATION*	*9,610*	*11,990*	*12,780*	*16,340*
160	*Accountants and Auditors*	*2,080*	*2,410*	*2,670*	*3,640*
	Auditor, County or City	60	70	80	100
	Accountant	1,420	1,650	1,880	2,600
	Accountant, Budget	30	40	40	50
	Accountant, Cost	130	180	170	190
	Auditor	140	170	200	290

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Auditor, Internal	20	30	20	30
	Estimator	270	260	260	320
161	*Budget & Management Analysis Occ.*	*230*	*280*	*320*	*420*
	Budget Officer	30	50	40	50
	Director, Joint Financing	20	30	40	50
	Treasurer	180	200	240	320
162	*Purchasing Management Occupations*	*1,820*	*2,560*	*2,430*	*2,640*
	Administrator, Contract & Order	90	100	80	90
	Contract Specialist	160	250	220	190
	Buyer Assistant	40	40	40	50
	Buyer, Chain Store	20	30	30	30
	Buyer, II	240	280	320	430
	Buyer, Livestock	10	10	*	*
	Piece-Goods Buyer	30	40	50	70
	Purchasing Agent	950	1,400	1,320	1,470
	Purchasing Engineer	30	30	20	20
	Supply Requirements Officer	190	320	280	220
	Buyer, Grain	20	10	10	10
	Purchase Price Analyst	20	30	30	20
163	*Sales & Distrib. Management Occ.*	*810*	*940*	*1,080*	*1,440*
	Manager, Circulation	30	30	40	60
	Manager, Sales	770	890	1,040	1,370
164	*Advertising Management Occupations*	*120*	*160*	*200*	*280*
	Manager, Advertising	60	60	70	100
	Account Executive	50	70	100	140
165	*Public Relations Management Occ.*	*160*	*210*	*230*	*320*
	Dealer-Contract Man	20	30	30	40
	Public Program Supervisor	30	40	40	60
	Public Relations Man, I	60	90	100	150
	Public Relations Man, II	40	50	50	60
166	*Personnel & Trng. Administration Occ.*	*530*	*700*	*700*	*890*
	Job Analyst	20	30	20	30
	Position Classifier	30	50	40	50
	Director, Educational	20	30	30	30
	Director, Industrial Relations	30	20	20	20
	Director, Safety	10	20	20	20
	Manager, Personnel	210	240	240	340

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Manager, Employment	20	30	40	50
	Supervisor, Training	10	20	30	40
	Training Representative	10	20	20	20
	Employment Interviewer	140	200	210	260
168	*Inspectors & Invest., Manag. & Pub. Ser.*	*880*	*1,190*	*1,190*	*1,330*
	Building Inspector	60	70	70	100
	Electrical Inspector	10	10	20	20
	Manager, Credit and Collection	280	330	370	500
	Agricultural-Commodity Grader	10	20	20	20
	Check Viewer	20	*	*	20
	Field Representative	10	20	20	30
	Quality Assurance Representative	310	530	470	380
	Sanitary Inspector	50	60	70	90
	Claim Examiner	30	40	40	60
	Loading Inspector	40	30	30	20
169	*Occ. in Admin. Specialization, N.E.C.*	*2,980*	*3,540*	*3,960*	*5,380*
	Administrative Assistant	170	210	210	250
	Administrative Secretary	180	210	250	340
	Chief Clerk	200	200	210	250
	Fire Assistant	20	20	20	20
	Manager, Electronic Data Processing	10	20	20	20
	Manager, Office	2,140	2,500	2,880	4,010
	Property-Disposal Officer	20	40	30	20
	Rating Specialist, Occupational	20	30	20	50
	Underwriter	110	130	140	210
	Systems Engineer	70	120	110	100
	Claims Taker Unemployment Benefits	30	40	50	70
18	*MANAGERS AND OFFICIALS, N.E.C.*	*9,140*	*10,890*	*12,480*	*16,910*
180	*Agri., Forestry, & Fish. Ind. Mgr. & Off.*	*50*	*50*	*50*	*50*
	Field Man	50	50	50	50
181	*Mining Industry Managers & Officials*	*190*	*180*	*190*	*240*
	Manager, Bulk Plant	30	50	50	70
	Mine Superintendent	70	50	60	80
	Mine Foreman	60	40	40	50
	Superintendent, Drilling & Production	30	30	40	40

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
182	*Construction Indus. Mang. & Officials*	*600*	*630*	*740*	*1,030*
	Contractor	60	50	70	90
	Roadmaster	20	10	10	*
	Superintendent, Construction	320	300	370	510
	Building-Construction Inspector	20	20	20	40
	Construction Inspector	40	50	50	70
	Highway Inspector	140	190	210	300
183	*Manuf. Industry Manag. & Officials*	*1,200*	*1,330*	*1,450*	*1,880*
	Manager, Branch	190	210	250	340
	Production Superintendent	390	400	420	570
	General Foreman	570	650	710	910
	General Superintendent, Milling	10	20	10	20
184	*Trans., Comm., & Util. Indu. Mgr. & Off.*	*630*	*750*	*810*	*950*
	Director, Transportation	10	10	20	20
	Manager, Operations	30	40	40	50
	Superintendent, Communications	20	20	30	30
	Manager, Station	10	20	20	20
	Manager, Terminal	20	20	30	30
	Manager, Traffic (Any Industry)	70	90	100	110
	Manager, Traffic (Air & Motor Trans.)	50	80	80	110
	Manager, Traffic (Telephone & Teleg.)	20	20	20	20
	Manager, Traffic (Radio & TV)	10	10	20	20
	Manager, Warehouse	100	130	140	170
	Superintendent, Electric Power	10	10	10	20
	Superintendent, Stations	20	20	20	10
	Superintendent, Transportation	10	10	10	10
	Superintendent, Waterworks	20	20	20	30
	Supervisor, Terminal	40	50	60	70
	Water & Sewer Systems Supervisor	30	40	40	60
	Yardmaster	60	60	50	40
185	*Whsle. & Retail Trade Ind. Mgr. & Off.*	*2,150*	*2,580*	*2,950*	*3,890*
	Converter	80	100	120	150
	Manager, Distribution-Warehouse	20	20	20	30
	Manager, Merchandise	90	110	120	170
	Manager, Parts	60	80	90	130
	Manager, Store	1,660	1,960	2,230	2,900
	Service Manager	20	30	40	50
	Wholesaler	210	280	320	460
186	*Fin., Ins., & Real Est. Ind. Mgr. & Off.*	*800*	*1,040*	*1,220*	*1,730*
	Controller	80	100	120	170
	Manager, Financial Institution	150	190	200	280
	Manager, Insurance	30	30	30	50

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Trust Officer	30	40	40	60
	Bank Cashier	160	200	260	360
	Manager, Apartment House	70	150	190	300
	Manager, Insurance Office	100	130	140	200
	Manager, Property	80	80	100	130
	Loan Officer	60	70	80	110
187	*Service Industry Managers & Officials*	*1,500*	*2,060*	*2,450*	*3,560*
	Manager, Hotel	30	40	40	60
	Recreation, Supervisor	20	30	40	60
	Superintendent, Hospital	50	90	120	190
	Superintendent, Institution	20	50	50	90
	Superintendent, Recreation	20	20	20	30
	Housemother	110	230	270	410
	Director, Funeral	50	60	70	80
	Director, School Lunch Program	40	70	80	100
	Executive Housekeeper	20	30	30	50
	Manager, Beauty Shop	30	70	70	150
	Manager, Cafeteria or Lunchroom	160	220	280	390
	Manager, Cemetary	20	20	30	30
	Manager, Liquor Establishment	30	30	40	40
	Manager, Recreational Establishment	60	90	110	140
	Manager, Restaurant or Coffee Shop	210	280	360	520
	Manager, Service Department	60	80	80	130
	Manager, Storage Garage	10	20	20	30
	Manager, Theater	100	110	110	160
	Manager, Catering	30	40	50	70
	Producer	30	30	30	70
	Superintendent, Building	270	290	380	510
	Superintendent, Laundry	40	50	40	60
188	*Public Admin. Managers & Officials*	*440*	*510*	*560*	*760*
	Civil Defense Officer	10	10	20	20
	Commissioner, Public Works	240	270	300	410
	Manager, City	50	60	70	100
	Police Commissioner	10	20	20	30
	Roads Supervisor	30	30	40	50
	Assessor	70	80	80	110
189	*Misc. Managers & Officials, N.E.C.*	*1,580*	*1,760*	*2,070*	*2,820*
	Association Executive	20	20	20	20
	Director, Research & Development	30	30	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Professional, Technical, and Managerial Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Manager, Industrial Organization	350	390	450	660
	President	630	700	850	1,170
	Vice President	490	540	650	870
	Security Officer	10	20	20	20
	Superintendent, Maintenance	30	40	40	40
19	*MISC. PROF., TECH., & MANAG. OCC.*	*2,870*	*3,870*	*3,790*	*4,770*
191	*Agents and Appraisers, N.E.C.*	*320*	*380*	*390*	*550*
	Leasman	30	20	30	30
	Right-of-Way Agent	40	50	60	80
	Credit Analyst	160	210	210	280
	Appraiser	60	70	70	120
193	*Radio Operators*	*60*	*80*	*90*	*130*
	Airline-Radio Operator, Chief	10	20	20	30
	Chief Controller	10	20	20	30
	Airline-Radio Operator	10	20	20	30
195	*Occ. in Social & Welfare Work*	*620*	*880*	*980*	*1,430*
	Caseworker	180	250	280	390
	Probation Officer	20	30	30	50
	Social Worker, Medical	40	80	90	150
	Social Worker, Psychiatric	70	100	130	170
	Social Worker, School	20	30	40	50
	Administrator, Social Welfare	20	30	40	50
	Casework Supervisor	80	120	130	190
	Case Aid	20	30	30	60
	Program Aid, Group Work	10	10	10	20
	Recreation, Leader	130	170	180	250
196	*Airplane Pilots & Navigators*	*140*	*210*	*230*	*310*
	Airplane Pilot, Commercial	120	190	200	280
198	*Railroad Conductors*	*750*	*600*	*510*	*350*
	Conductor, Road Freight	750	600	510	350
199	*Misc. Prof., Tech., & Mng. Occ., N.E.C.*	*980*	*1,720*	*1,590*	*2,000*
	Urban Planner	30	30	30	40
	Radiographer	40	40	40	30
	Scientific Helper	430	810	950	1,480
	Preservation-Packing Specialist	30	50	50	40
	Decontamination Man	20	30	30	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
20	*STENO., TYPING, FILING, & REL. OCC.*	*17,690*	*24,330*	*27,820*	*37,460*
201	*Secretaries*	*5,090*	*7,100*	*8,510*	*12,060*
	Legal Secretary	70	100	140	190
	Medical Secretary	230	350	450	700
	Secretary	4,790	6,650	7,920	11,160
202	*Stenographers*	*2,850*	*3,550*	*3,920*	*5,350*
	Stenographer	2,820	3,520	3,880	5,300
	Stenotype Operator	20	30	30	40
203	*Typists*	*950*	*1,160*	*1,390*	*1,900*
	Telegraphic-Typewriter Operator	110	110	130	150
	Typist	830	1,040	1,240	1,750
204	*Correspondence Clerks*	*90*	*110*	*110*	*150*
	Correspondence Clerk	90	110	110	150
205	*Personnel Clerks*	*190*	*230*	*230*	*270*
	Personnel Clerk Supervisor	30	30	30	50
	Personnel Clerk	130	160	160	170
206	*File Clerks*	*530*	*690*	*750*	*980*
	File Clerk, I	410	530	580	740
	File Clerk, II	110	140	150	210
207	*Duplicating Machine Operators*	*200*	*270*	*300*	*420*
	Duplicating-Machine Operator, II	20	20	20	20
	Duplicating-Machine Operator, III	80	130	150	220
	Offset-Duplicating-Machine Oper.	70	90	100	140
	Duplicating-Machine Operator, I	10	20	20	20
208	*Misc. Office Machine Operators*	*180*	*220*	*230*	*310*
	Transcribing-Machine Operator	170	200	210	290
209	*Stenography, Typing, Filing, & Related Occupations, N.E.C.*	*7,610*	*11,000*	*12,380*	*16,020*
	Steno-Pool Supervisor	40	60	60	40
	Cancellation Clerk	70	70	70	80
	Clerk-Typist	4,860	6,500	7,100	9,400
	Mortgage Clerk	40	50	50	70

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Mortgage Processing Clerk	20	20	20	30
	Circulation Clerk	20	20	40	60
	Invoice-Control Clerk	90	110	130	170
	Clerk, General	2,060	3,670	4,350	5,450
	Marker	210	240	290	370
	Price Clerk	60	80	80	120
	Checker	80	90	100	120
	Weight Caller	10	*	*	10
21	*COMPUTING AND ACCOUNT RECORDING OCC.*	*15,100*	*19,390*	*22,120*	*29,220*
210	*Bookkeepers*	*2,520*	*3,000*	*3,660*	*5,060*
	Insurance Clerk (Medical Services)	50	70	90	140
	Audit Clerk	40	60	70	80
	Bookkeeper, I	2,080	2,460	3,000	4,150
	Bookkeeper, II	250	300	380	540
	Reconcilement Clerk	50	50	60	60
	Insurance Clerk, II	30	30	40	60
211	*Cashiers*	*1,980*	*2,420*	*2,860*	*3,880*
	Cashier, I	280	350	390	540
	Cashier, II	1,510	1,860	2,220	3,020
	Ticket Seller	180	200	230	300
212	*Tellers*	*780*	*970*	*1,200*	*1,660*
	Teller, Head	10	20	20	20
	Teller	750	930	1,170	1,600
	Teller, Note	10	20	20	20
213	*Auto. Data-Processing-Equip. Operators*	*2,070*	*3,140*	*3,340*	*3,890*
	Supervisor, Computer Operations	30	50	40	40
	Supervisor, Machine-Records Unit	60	70	70	100
	Computer-Peripheral-Equip. Operator	500	610	700	940
	Digital-Computer Operator	240	340	330	330
	Key-Punch Operator	1,080	1,830	1,980	2,260
	Data Typist	90	130	120	100
	Verifier Operator	20	30	30	40
	Tabulating-Machine Operator	50	70	70	80
214	*Billing Machine Operators*	*80*	*100*	*110*	*160*
	Billing Machine Operator	80	100	100	160

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
215	*Bookkeeping-Machine Operator*	*600*	*740*	*810*	*1,060*
	Bookkeeping-Machine Operator, I	320	390	430	590
	Bookkeeping-Machine Operator, II	50	60	60	80
	Payroll Clerk	230	290	310	390
216	*Computing-Machine Operators*	*430*	*500*	*570*	*770*
	Calculating-Machine Operator	350	410	470	610
	Food Checker	20	30	40	50
	Interline Clerk	30	20	30	60
	Policy-Value Calculator	20	20	20	40
217	*Account-Recording-Machine Oper., N.E.C.*	*270*	*320*	*400*	*570*
	Proof-Machine Operator	20	20	30	50
	Transit Clerk	250	300	370	520
219	*Computing & Account Record. Occ., N.E.C.*	*6,370*	*8,200*	*9,170*	*12,170*
	Payroll Clerk, Chief	20	30	30	40
	Brokerage Clerk	20	10	20	40
	Actuarial Clerk	30	30	30	40
	Billing Clerk	150	190	220	310
	Budget Clerk	10	20	20	20
	Clerk, General Office	4,140	5,240	6,000	8,120
	Coding Clerk	10	10	10	20
	Control Clerk, Data Processing	20	20	30	40
	Dispatcher Clerk	40	30	30	20
	Insurance Clerk	10	20	20	30
	Rate Clerk, Freight	40	50	60	70
	Revising Clerk	30	20	20	20
	Statistical Clerk	230	290	300	380
	Timekeeper	110	120	120	140
	Traffic-Rate Clerk	60	100	90	90
	Ward Clerk	130	220	270	460
	Accounting Clerk	1,040	1,440	1,520	1,850
	Cost Clerk	50	50	50	70
	Grading Clerk	20	40	40	70
	Kardex Clerk	10	10	20	40
	Posting Clerk	130	160	170	200
22	*MATERIAL & PRODUCTION RECORDING OCC.*	*6,100*	*8,040*	*8,180*	*9,770*
221	*Production Clerks*	*830*	*1,010*	*850*	*790*
	Material Coordinator	20	30	30	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Production Coordinator	30	30	30	30
	Spares Scheduler	40	30	10	10
	Tower-Control Man	10	10	20	20
	Order Detailer	50	60	50	60
	Production Clerk	550	750	660	590
	Job Tracer	120	90	50	40
222	*Shipping & Receiving Clerks*	*1,840*	*2,340*	*2,510*	*3,230*
	Shipping Clerk	30	50	50	70
	Expediter	100	160	140	110
	Freight-Receiving Clerk	10	10	10	*
	Receiving Clerk	540	700	800	1,100
	Shipping & Receiving Clerk	190	270	270	260
	Retail Receiving Clerk	200	230	210	290
	Manifest Clerk	10	*	*	*
	Distributing Clerk	10	20	20	10
	Route-Return Man	10	20	20	30
	Shipping Clerk	530	670	780	1,100
	Shop Clerk, Grain Elevators	10	10	10	10
	Traffic Clerk	10	20	20	20
	Mail Sorter	90	80	80	80
	Shipping Checker	50	40	50	50
223	*Stock Clerks & Related Occupations*	*3,230*	*4,490*	*4,630*	*5,480*
	Receiving-and-Shipping Foreman	20	20	20	20
	Stock Supervisor	40	30	30	30
	Stock-Control Supervisor	20	30	30	30
	Supervisor, Stock	190	220	240	300
	Procurement Clerk	70	90	90	130
	Linen-Room Attendant	10	10	20	30
	Material Clerk	90	90	90	110
	Material Disposition Analyst	10	*	*	*
	Parts Clerk	150	190	200	240
	Stock Clerk	1,790	2,540	2,670	3,260
	Stock-Control Clerk	170	280	260	220
	Tool Clerk	70	90	80	70
	Inventory Clerk	380	580	580	600
	Inventory Clerk, Stockroom	70	100	100	120
	Checker, Bakery Products	10	*	*	*
	Checker	40	60	60	80
	Control-Supply Worker	50	80	100	170

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
224	*Weighers*	*130*	*130*	*130*	*180*
	Weigher	20	10	20	30
	Weigher, II	50	60	70	100
	Weigher-Up	20	*	*	*
	Weigher, I	40	40	30	30
229	*Mater. & Prod. Recording Occ., N.E.C.*	*70*	*70*	*60*	*100*
	Car Checker	20	20	20	50
	Parts Lister	10	*	*	*
	Roadmaster Clerk	10	*	*	*
23	*INFORMATION & MESSAGE DISTRIB. OCC.*	*5,750*	*6,800*	*7,590*	*9,820*
230	*Messenger & Office Boys & Girls*	*160*	*170*	*200*	*230*
	Telegraph Messenger	40	30	40	10
	Copy Boy	10	20	20	30
	Messenger	50	60	60	100
	Office Boy	30	30	40	40
	Runner	20	30	40	50
231	*Mail Clerks*	*1,160*	*1,440*	*1,600*	*2,070*
	Mailing Supervisor	80	110	130	180
	Mail Clerk	390	590	720	1,000
	Distribution Clerk	670	720	740	880
232	*Post Office Clerks*	*910*	*970*	*1,000*	*1,190*
	Post Office Clerk	910	970	990	1,180
233	*Mail Carriers*	*780*	*840*	*860*	*1,030*
	Mail Carrier	770	820	840	1,010
	Rural-Mail Carrier	10	20	20	20
234	*Mail-Prep. & Mail-Handling Mach. Oper.*	*20*	*30*	*30*	*40*
	Addressing-Machine Operator	20	20	20	30
235	*Telephone Operators*	*1,660*	*1,990*	*2,240*	*2,840*
	Central-Office-Operator, Supervisor	180	200	220	220
	Telephone Operator, Chief	40	50	60	70
	Central-Office Operator	650	720	760	780
	Telephone Operator	770	1,010	1,180	1,730

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
236	*Telegraph Operators*	*30*	*20*	*20*	*10*
	Telegrapher	30	20	20	10
237	*Receptionists & Information Clerks*	*720*	*1,000*	*1,250*	*1,900*
	Admitting Officer	10	20	20	30
	Appointment Clerk	30	60	60	140
	Hospital-Admitting Clerk	60	90	110	180
	Information Clerk	20	20	30	40
	Receptionist	590	790	1,010	1,480
239	*Infor. & Message Distrib. Occ., N.E.C.*	*310*	*340*	*390*	*510*
	Meter Reader, Chief	20	20	20	20
	Dispatcher, Maintenance Service	40	40	40	50
	Mailer	70	90	100	150
	Board Boy	20	20	30	50
	Meter Reader	80	80	90	120
	Service Observer	80	80	90	90
24	*MISCELLANEOUS CLERICAL OCCUPATIONS*	*2,720*	*3,300*	*3,830*	*5,220*
240	*Collectors*	*280*	*360*	*440*	*610*
	Collectors	200	260	320	440
	Collection Clerk	60	80	100	140
	Collector	20	20	20	20
241	*Adjusters*	*130*	*150*	*160*	*220*
	Claim Adjuster	60	80	80	120
	Adjustment Clerk	60	70	80	100
242	*Hotel Clerks*	*110*	*130*	*150*	*230*
	Hotel Clerk	110	130	150	230
243	*Direct Service Clerks, N.E.C.*	*160*	*180*	*190*	*220*
	Service Clerk	160	170	190	210
249	*Misc. Clerical Occupations, N.E.C.*	*2,040*	*2,480*	*2,890*	*3,940*
	Drafting Clerk	80	80	80	90
	Contract Clerk	200	230	240	260
	Court Clerk	60	70	80	110
	Credit Clerk	390	420	560	820
	Library Assistant	440	670	780	1,130

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Clerical Occupations (Continued)

Occupational Code	Occupational Title	Employment			
		1960	1967	1971	Proj. 1980
	New-Account Clerk	140	180	200	270
	Order Clerk	300	330	370	480
	Reconsignment Clerk	10	10	10	*
	Safe-Deposit Clerk	20	30	30	50
	Tracer Clerk	30	20	20	20
	Compiler	60	60	70	80
	Credit Authorizer	70	80	90	120
	Medical-Record Clerk	60	90	120	180
	Securities Clerk	30	40	50	80
	Town Clerk	80	90	100	140
	Station-House Clerk	40	50	60	80

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Sales Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
25	*SALESMEN, SERVICES*	*1,110*	*1,280*	*1,540*	*2,190*
250	*Salesmen, Real Estate & Insurance*	*630*	*710*	*820*	*1,150*
	Salesman, Insurance	450	540	590	860
	Salesman, Real Estate	170	160	220	280
251	*Salesmen, Securities*	*80*	*60*	*110*	*180*
	Salesman, Securities	80	60	110	180
252	*Salesmen, Business & Financial Services*	*110*	*140*	*160*	*220*
	Salesman, Financial Service	70	90	90	120
	Leaseman	10	10	20	20
	Salesman, Business Services	20	30	50	80
253	*Salesmen, Radio & TV Broadcasting Serv.*	*10*	*10*	*20*	*20*
	Salesman, Radio & TV Time	10	10	20	20
258	*Salesmen, Printing & Advertising*	*220*	*270*	*330*	*500*
	Salesman, Advertising	130	160	190	280
	Salesman, Printing	60	80	100	150
	Salesman, Signs	20	20	40	70
259	*Salesmen, Services, N.E.C.*	*60*	*80*	*100*	*120*
	Crating-and-Moving Estimator	50	60	80	90
26, 27, 28	*SALESMEN & SALESPERSONS, COMMODITIES*	*12,470*	*14,530*	*17,060*	*22,530*
262	*Salesmen & Salespersons, Foodstuffs, Beverages, and Tobacco*	*460*	*470*	*530*	*580*
	Salesman, Food Products	310	320	360	410
	Salesman, Grain-and-Feed Products	120	120	130	140
	Salesman, Tob. Prod. & Smoke. Supp.	30	30	30	30
263	*Salesmen & Salespersons, Textiles, Textile Products, & Apparel*	*880*	*1,140*	*1,360*	*1,730*
	Salesman, Men's & Boy's Clothing	30	80	90	70
	Salesman, Women's & Girl's Apparel	70	160	190	150
	Salesperson, Furs	20	30	30	50
	Salesperson, Shoe	150	170	200	290
	Salesperson, Men's & Boy's Clothes	80	90	100	150
	Salesperson, Women's Garments	500	580	700	980
	Salesperson, Yard Goods	20	30	30	40

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Sales Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
265	*Salesmen, Paper & Paper Products*	*180*	*180*	*200*	*300*
	Salesman, Paper & Paper Products	180	180	200	300
266	*Salesmen, Chemicals & Drug Preparations*	*280*	*330*	*350*	*370*
	Salesman, Chemicals & Drugs	280	330	350	370
267	*Salesmen, Fuel & Petroleum Products*	*70*	*120*	*110*	*180*
	Salesman, Petroleum Products	70	110	110	170
273	*Salesmen, Metal & Metal Products*	*120*	*150*	*180*	*230*
	Salesman, Foundry & Mach. Shop Prod.	40	40	50	70
	Salesman, Metals	80	100	130	160
274	*Salesmen & Salespersons, Housefurn.*	*770*	*760*	*890*	*1,000*
	Salesman, Floor Coverings	10	10	20	20
	Salesman, Housefurnishings	140	160	220	240
	Salesperson, Curtain & Drapery	40	50	60	70
	Salesperson, Furniture	580	540	600	670
275	*Salesmen, Hotel & Rest. Equip. & Supp.*	*50*	*60*	*70*	*90*
	Salesmen, Hot. & Rest. Equip. & Supp.	50	60	70	90
276	*Salesmen & Salespersons, Indus., Const., Mining & Drilling Equip. & Supplies*	*1,840*	*1,800*	*2,110*	*2,610*
	Salesman, Machinery	340	420	520	750
	Salesman, Bldg. & Const. Equip. & Sup.	830	780	920	1,080
	Salesman, Hardware Supplies	220	200	210	260
	Salesperson, General Hardware	450	390	450	520
277	*Salesmen & Salespersons, Farm & Garden Equipment & Supplies*	*50*	*70*	*80*	*110*
	Salesman, Farm & Gard. Equip. & Supp.	40	50	60	80
	Salesperson, Lawn & Gard. Equip. & Sup.	10	20	20	30
278	*Salesman, & Salespersons, Household Appliances & Elec. Mach., Equip., & Supp.*	*390*	*460*	*490*	*670*
	Salesman, Gas-or-Electric Appliances	80	90	100	140
	Salesman, Household Equipment	170	200	180	240
	Salesman, Radio & TV Parts	60	100	120	200
	Salesperson, TV & Appliances	50	50	60	60
280	*Salesmen & Salesperson, Transp. Equip.*	*990*	*1,160*	*1,380*	*1,990*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Sales Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Salesman, Automobile	630	700	840	1,190
	Salesman, Automobile Parts	100	140	180	250
	Salesman, Motor Vehicles & Supplies	140	170	200	260
	Salesperson, Automobile Accessories	120	140	160	290
281	*Salesmen, Business & Commercial Machines, Equipment, and Supplies*	*320*	*400*	*470*	*630*
	Salesman, Barber & Beauty Supplies	30	40	40	50
	Salesman, Office Machines	150	190	220	290
	Salesman, Commercial Equip. & Supp.	140	170	220	280
282	*Salesmen & Salespersons, Medical & Dental Equip., Supplies, & Appliances*	*40*	*60*	*90*	*150*
	Salesman, Med., & Dent. Equip. Sup.	30	40	40	50
283	*Salesmen & Salespersons, Jewelry and Silverware*	*70*	*90*	*120*	*200*
	Salesman, Jewl. & Optical Goods	30	40	60	110
	Salesperson, Jewelry	40	50	60	90
286	*Salesmen & Salespersons, Amusement and Sporting Goods*	*90*	*120*	*130*	*200*
	Salesman, Amuse. & Sporting Goods	40	60	70	110
	Salesperson, Sporting Goods	40	50	60	90
287	*Salesmen & Salespersons, Music and Musical Instruments*	*60*	*70*	*70*	*90*
	Salesperson, Mus. Inst. & Access.	60	60	60	70
289	*Salesmen & Salespersons, Commodities, N.E.C.*	*5,800*	*7,080*	*8,390*	*11,350*
	Salesman, General	90	130	140	240
	Salesperson, Books	130	180	220	320
	Salesperson, Parts	440	560	670	960
	Salesperson, General	3,680	4,360	5,070	6,790
29	*MERCHANDISING OCC., EXCEPT SALESMEN*	*6,530*	*7,890*	*8,730*	*11,060*
290	*Sales Clerks*	*2,200*	*2,760*	*3,160*	*4,120*
	Sales Clerk	1,460	1,770	2,050	2,660
	Salesperson, Food	730	990	1,110	1,460

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Sales Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
292	*Routemen*	*1,500*	*1,460*	*1,450*	*1,550*
	Route Supervisor	170	160	160	160
	Salesman-Driver	1,330	1,300	1,280	1,390
293	*Canvassers and Solicitors*	*90*	*110*	*130*	*170*
	Solicitor	30	40	50	70
	Telephone Solicitor	60	70	80	100
297	*Demonstrators and Models*	*120*	*140*	*160*	*210*
	Demonstrator	100	120	140	180
	Model	10	20	20	30
298	*Display Men & Window Trimmers*	*160*	*190*	*230*	*300*
	Display Man	160	190	220	290
299	*Merch. Occ., exc. Salesmen, N.E.C.*	*2,450*	*3,210*	*3,580*	*4,680*
	Department Head, Supermarket	80	110	120	160
	Foreman, Ice Delivery & Storage	10	*	10	20
	Manager, Department	420	530	600	780
	District Circulator	40	50	60	100
	Carpet Layer	50	50	50	70
	Cashier-Checker	1,730	2,330	2,570	3,340
	Delivery Boy	40	60	70	100
	Drapery Hanger	30	30	40	60
	Optitician, Dispensing	30	30	40	50

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
30	*DOMESTIC SERVICE OCCUPATIONS*	*150*	*250*	*280*	*380*
307	*Nursemaids*	*150*	*250*	*280*	*370*
	Nursemaid	150	250	280	370
31	*FOOD & BEVERAGE PREP. & SERV. OCC.*	*14,250*	*19,660*	*24,400*	*34,110*
310	*Hostess & Stewards, Food & Bev. Ser.*	*420*	*560*	*720*	*1,010*
	Kitchen Supervisor	30	40	50	70
	Steward	20	30	40	60
	Hostess, Restaurant or Coffee Shop	360	480	620	880
311	*Waiters, Waitresses, & Rel. Food Serving Occupations*	*6,250*	*8,170*	*10,330*	*14,490*
	Waiter, Head	10	10	20	20
	Bus Boy	550	680	840	1,220
	Car Hop	250	340	440	620
	Counterman, Cafeteria	560	770	970	1,360
	Counterman, Lunchroom or Coffee Shop	1,060	1,410	1,810	2,520
	Floor Girl, Cafeteria	30	50	60	80
	Waiter, Bar	20	30	40	50
	Waiter, Formal	110	130	160	240
	Waiter, Informal	3,370	4,440	5,650	7,900
	Waitress, Take Out	290	300	320	450
312	*Bartenders*	*480*	*590*	*650*	*710*
	Bartenders	480	590	650	710
313	*Cooks & Chefs, Large Hotels & Resta.*	*2,610*	*3,780*	*4,590*	*6,290*
	Chef	50	70	90	130
	Sous Chef	40	50	60	80
	Baker, Head	30	50	60	80
	Cook, Head, School Cafeteria	10	20	20	30
	Baker, Second	40	70	90	140
	Cook	910	1,200	1,520	2,180
	Cook, Barbecue	30	40	50	70
	Cook, Pastry	20	20	20	40
	Cook, School Cafeteria	1,440	2,220	2,610	3,420
	Baker	30	30	40	60
314	*Cooks & Chefs, Small Hot. & Resta.*	*440*	*590*	*770*	*1,070*
	Cook, Short Order	440	590	770	1,070

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
315	*Misc. Cooks, Except Domestic*	*220*	*350*	*420*	*630*
	Cook	170	310	380	600
	Cook, Railroad	50	40	30	20
316	*Meatcutters, exc. in Slaughtering and Packing Houses*	*450*	*600*	*670*	*880*
	Butcher, Meat	40	50	60	80
	Carver	20	20	30	40
	Meat Cutter	390	530	590	760
317	*Misc. Food & Beverage Prep. Occ.*	*640*	*870*	*1,110*	*1,610*
	Pantryman	210	280	350	510
	Cook Helper	430	590	750	1,080
318	*Kitchen Workers*	*2,300*	*3,560*	*4,410*	*6,420*
	Kitchen Steward	20	20	30	50
	Kitchen Helper	2,280	3,540	4,380	6,370
319	*Food & Beverage Preparation and Service Occupations, N.E.C.*	*440*	*590*	*730*	*1,010*
	Food-Service Supervisor	70	100	120	170
	Fountain Man	370	470	600	830
32	*LODGING AND RELATED SERVICE OCC.*	*1,270*	*1,600*	*1,880*	*2,980*
320	*Boardinghouse & Lodginghouse Keepers*	*90*	*100*	*120*	*180*
	Manager, Lodging Facilities	90	100	120	180
321	*Housekeepers, Hotels & Institutions*	*120*	*190*	*230*	*360*
	Housekeeper	110	180	220	340
323	*Maids & Housemen, Hotels & Rel. Estab.*	*870*	*1,100*	*1,290*	*2,080*
	Housemen	30	50	60	90
	Maid	600	680	790	1,220
	Maid, Hospital	240	380	440	780
324	*Bellmen & Related Occupations*	*130*	*140*	*160*	*240*
	Bellman	80	100	110	170
	Doorman	30	30	40	40
329	*Lodging & Rel. Service Occ., N.E.C.*	*60*	*70*	*80*	*120*
	Superintendent, Service	60	70	80	120

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
33	*BARBERING, COSMETOLOGY, & RELATED SERVICE OCCUPATIONS*	*990*	*1,570*	*1,570*	*3,330*
330	*Barbers*	*220*	*200*	*150*	*350*
	Barber	220	200	150	350
332	*Hairdressers and Cosmetologists*	*680*	*1,250*	*1,280*	*2,790*
	Cosmetologist	680	1,250	1,270	2,780
338	*Embalmers and Related Occupations*	*80*	*100*	*110*	*140*
	Embalmer	70	90	100	120
34	*AMUSEMENT & RECREATION SERVICE OCC.*	*640*	*840*	*1,010*	*1,340*
340	*Attendants, Bowling Alley*	*90*	*130*	*170*	*220*
	Deskman, Bowling Floor	80	110	140	190
	Pin Boy	10	20	30	30
341	*Attendants, Recreation Facilities*	*70*	*100*	*120*	*160*
	Recreation Facility Attendant	50	70	90	120
	Ski-Tow Operator	20	20	30	40
342	*Amusement Device & Concession Attendants*	*160*	*230*	*300*	*380*
	Concession Attendant	80	120	150	190
	Ride Operator	80	110	150	180
344	*Ushers*	*310*	*370*	*410*	*580*
	Ticket Taker	60	60	60	90
	Lobby Man	10	10	10	20
	Usher	240	290	330	460
35	*MISCELLANEOUS PERSONAL SERVICE OCC.*	*2,630*	*4,210*	*4,990*	*8,130*
351	*Pullman Porters & Train Attendants*	*90*	*70*	*60*	*40*
	Porter, Pullman	90	70	60	40
352	*Hostesses & Stewards, N.E.C.*	*70*	*110*	*150*	*300*
	Airline Stewardess	70	110	150	300
353	*Guides, exc. Hunting & Fishing*	*50*	*70*	*90*	*130*
	Guide, Travel	50	70	90	110

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
355	*Attendants, Hospitals, Morgues, and Related Health Services*	*1,860*	*3,230*	*3,920*	*6,490*
	Nurse Aid	1,410	2,430	2,990	4,870
	Orderly	130	220	270	450
	Psychiatric Aid	130	320	390	650
	Tray-Line Worker	180	240	250	480
356	*Occupations in Animal Care, N.E.C.*	*40*	*70*	*70*	*100*
	Animal Keeper	10	10	20	20
	Veterinary Hospital Attendant	10	20	30	40
357	*Baggage Porters*	*20*	*30*	*30*	*30*
	Porter	20	30	30	30
358	*Checkroom, Locker Room, & Restroom Att.*	*210*	*240*	*290*	*380*
	Baggageman	40	40	50	70
	Checkroom Attendant	30	40	50	60
	Restroom Attendant	130	150	180	220
359	*Misc. Personal Service Occ., N.E.C.*	*270*	*380*	*370*	*650*
	Child-Care Attendant	160	190	180	380
	Funeral Attendant	40	50	50	70
	Teacher, Nursery School	70	140	140	200
36	*APPAREL & FURNISHINGS SERVICE OCC.*	*1,810*	*2,180*	*2,300*	*3,500*
361	*Laundering Occupations*	*740*	*960*	*1,020*	*1,500*
	Laundry Foreman	40	50	50	80
	Assembler, Wet Wash	10	10	10	20
	Laundryman, Hand	120	200	240	390
	Laundryman	70	130	160	250
	Washer, Machine	80	100	100	160
	Laundry Laborer	390	430	410	570
	Shaker, Wearing Apparel	20	20	20	30
362	*Dry Cleaning Occupations*	*50*	*60*	*60*	*80*
	Spotter	10	10	10	20
	Dry Cleaner	40	50	40	60
363	*Pressing Occupations*	*670*	*800*	*840*	*1,220*
	Presser, Machine	340	430	490	720
	Presser, Hand	30	40	50	60
	Press Operator	10	10	10	10

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Shirt Presser	110	130	120	170
	Flatwork Finisher	160	180	170	240
365	*Shoe Repairman & Related Occupations*	*130*	*110*	*130*	*340*
	Shoe Repairman	120	110	130	340
369	*Apparel & Furnishing Service Occupations, N.E.C.*	*220*	*250*	*240*	*350*
	Assembler	10	10	10	20
	Folder	80	90	100	150
	Marker	90	110	100	130
37	*PROTECTIVE SERVICE OCCUPATIONS*	*3,500*	*4,220*	*4,570*	*6,030*
371	*Crossing Watchmen*	*70*	*80*	*90*	*110*
	School-Crossing Guard	70	80	90	110
372	*Guards & Watchmen, exc. Crossing Watch.*	*880*	*1,110*	*1,170*	*1,510*
	Guard Chief	20	30	30	30
	Special Agent	10	10	20	30
	Correction Officer	20	30	30	40
	Flagman	30	30	30	50
	Guard	350	470	470	590
	Jailer	10	10	20	20
	Watchman	430	500	580	740
373	*Firemen, Fire Department*	*930*	*1,110*	*1,130*	*1,510*
	Fire Cheif	20	20	30	30
	Battalion Chief	20	30	30	40
	Fire Captain	150	180	190	250
	Fire Inspector	30	40	40	40
	Fire Marshal	20	20	20	20
	Fire-Fighter	690	810	820	1,130
375	*Policemen & Detectives, Public Service*	*1,160*	*1,380*	*1,510*	*2,050*
	Police Chief	60	60	70	100
	Police Captain, Precinct	30	30	40	50
	Police Lieutenant, Precinct	50	60	70	90
	Police Sergeant, Precinct	130	160	170	230
	Traffic Lieutenant	40	50	60	90
	Detective	40	50	60	80
	Patrolman	740	880	960	1,290

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Service Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Parking Enforcement Officer	30	30	30	50
	Matron	10	20	20	30
376	*Policemen & Detectives, exc. in Pub. Ser.*	*30*	*30*	*30*	*30*
	Investigator	20	20	20	10
377	*Sheriffs and Bailiffs*	*150*	*170*	*190*	*260*
	Bailiff	10	20	20	20
	Sheriff Deputy	130	150	170	230
379	*Protective Service Occ., N.E.C.*	*280*	*340*	*400*	*540*
	Dispatcher, Radio	60	70	80	110
	Life Guard	100	130	150	210
	Ski Patrolman	40	50	70	90
	Dog Catcher	40	40	50	70
	Mosquito Sprayer	20	20	20	30
38	*BUILDING & RELATED SERVICE OCCUPATIONS*	*7,840*	*11,710*	*14,300*	*20,810*
381	*Porters and Cleaners*	*4,980*	*7,290*	*9,020*	*13,410*
	Porter Head	110	160	200	290
	Alleyman	30	50	60	80
	Chorwoman	630	750	1,000	1,390
	Cleaner, Laboratory Equipment	90	150	180	300
	Porter, I	3,430	4,780	6,270	9,620
	Porter, II	680	1,390	1,310	1,720
382	*Janitors*	*2,500*	*4,010*	*4,760*	*6,740*
	Janitor	2,500	4,010	4,760	6,740
388	*Elevator Operators*	*260*	*260*	*310*	*330*
	Elevator Operator	260	260	310	330
389	*Bldg. & Rel. Service Occ., N.E.C.*	*100*	*150*	*210*	*340*
	Electrical-Fixture Man	10	20	20	40
	Floor Waxer	40	70	100	170
	Window Cleaner	30	40	60	100

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Farming, Forestry, and Related Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
40	*PLANT FARMING OCCUPATIONS*	*1,410*	*1,830*	*2,090*	*2,750*
406	*Horticultural Speciality Occupations*	*20*	*30*	*40*	*60*
	Nurseryman	20	30	30	50
407	*Gardening & Groundskeeping Occ.*	*1,350*	*1,770*	*2,020*	*2,650*
	Park Foreman	200	220	240	300
	Landscape Gardner	20	30	30	40
	Greenskeeper	90	120	150	200
	Grounds Keeper	450	640	790	1,120
	Camp-Ground Caretaker	210	290	320	470
	Cemetary Worker	20	30	30	40
	Laborer, Landscape	20	20	20	30
	Park Worker	330	400	400	440
41	*ANIMAL FARMING OCCUPATIONS*	*80*	*90*	*100*	*120*
411	*Dairy Farming Occupations*	*40*	*40*	*40*	*40*
	Farm Hand, Dairy	40	30	40	30
412	*Poultry Farming Occupations*	*20*	*20*	*20*	*20*
	Farm Hand, Poultry	20	20	20	20
413	*Livestock Farming Occupations*	*20*	*30*	*40*	*50*
	Farm Hand, Livestock	10	10	*	10
42	*MISC. FARMING AND RELATED OCCUPATIONS*	*80*	*90*	*100*	*120*
421	*General Farming Occupations*	*120*	*180*	*190*	*260*
	Farmer, General	10	20	20	30
	Farm Hand, General	100	150	160	230
44	*FORESTRY OCCUPATIONS*	*200*	*260*	*250*	*220*
441	*Forest Conservation Occupations*	*200*	*260*	*250*	*220*
	Forester Aid	200	260	250	220
46	*AGRICULTURAL SERVICE OCCUPATIONS*	*20*	*20*	*20*	*20*
465	*Blight & Pest Control Occupations*	*10*	*10*	*10*	*20*
	Weed Inspector	10	10	10	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
50	*OCCUPATIONS IN PROCESSING METAL*	*940*	*1,050*	*830*	*880*
500	*Electroplating Occupations*	*60*	*100*	*100*	*140*
	Plater	40	70	70	90
	Laborer, Electroplating	10	20	20	10
501	*Dip Plating Occupations*	*170*	*190*	*140*	*160*
	Plater, Hot Dip	160	180	130	120
502	*Melting, Pouring, Casting & Related Occupations*	*80*	*80*	*60*	*60*
	Blast-Furnace Keeper	20	20	10	10
	Steel Pourer	20	20	20	20
	Steel-Pourer Helper	20	20	10	10
	Scaleman	20	20	20	10
503	*Cleaning, Degreasing, & Related Occ.*	*50*	*70*	*70*	*110*
	Metal-Cleaner Immersion	10	20	30	70
	Sandblaster	30	40	40	40
509	*Occ. in Proces. of Metal, N.E.C.*	*550*	*590*	*440*	*390*
	Scrap Baller	20	20	20	20
	Laborer, General	520	560	410	370
51	*ORE REFINING AND FOUNDRY OCCUPATIONS*	*3,100*	*2,870*	*3,010*	*3,110*
511	*Separating, Filtering, & Rel. Occ.*	*360*	*340*	*370*	*380*
	Cottrell Operator	20	20	20	30
	Leacher	30	20	20	20
	Precipitator	20	10	10	10
	Screen Operator	70	80	80	70
	Slime-Plant-Operator Helper	10	10	10	20
	Flotation Man Helper	70	90	90	80
	Skimmer, Reverberatory	80	60	80	90
	Treaterman, Cottrell	30	30	40	40
512	*Melting Occupations*	*620*	*520*	*600*	*640*
	First Helper	40	40	30	30
	Furnace Operator	20	20	20	20
	Pig-Machine Operator	20	20	20	20
	Stove Tender	20	20	20	20
	Charging Machine Operator	20	20	10	10
	Furnace Charger	80	70	80	90

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Second Helper	30	30	20	20
	Cupola Charger	20	20	20	30
	Furnace Helper	310	230	320	360
	Third Helper	40	40	30	30
513	*Roasting Occupations*	*40*	*30*	*40*	*50*
	Fireman	30	20	30	40
514	*Pouring and Casting Occupations*	*190*	*150*	*190*	*210*
	Casting-Wheel Operator	30	30	30	40
	Caster	10	10	10	20
	Tapper	90	60	90	100
	Casting-Wheel-Operator Helper	20	20	20	20
	Moldman	20	20	20	10
515	*Crushing and Grinding Occupations*	*140*	*90*	*80*	*80*
	Mill Foreman	70	40	30	30
	Crusher Man	60	40	40	40
518	*Molders, Coremakers, & Related Occ.*	*120*	*100*	*120*	*130*
	Coremaker	10	*	10	10
	Molder	50	40	50	50
	Machine Molder	20	20	20	20
	Coremaker, Machine	10	*	10	10
519	*Ore Refin. & Foundry Occ., N.E.C.*	*1,600*	*1,610*	*1,580*	*1,590*
	Foreman, Uranium Processing	40	20	30	30
	Foundry Foreman	20	20	30	40
	Foreman, Scrap Preparation	20	20	20	30
	Tank House Man	10	20	20	20
	Drossman	20	10	20	20
	Operator, Door Machine	40	40	30	30
	Mold Dresser	20	10	20	20
	Sampleman	130	120	130	130
	Tank-House-Man Helper	60	50	60	70
	Carbon Setter	20	10	20	20
	Foundry Worker, General	290	300	280	270
	Laborer, General	800	840	820	810
	Test Boy	10	10	10	10
52	*OCC. IN PROCESSING FOOD & RELATED OCC.*	*4,480*	*4,220*	*4,000*	*4,190*
520	*Mixing, Blending, & Related Occ.*	*310*	*330*	*370*	*430*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Dough Mixer	10	10	10	10
	Bench Hand	20	20	20	20
	Batter Mixer	10	*	*	*
	Candy-Maker Helper	30	30	30	30
	Feed Mixer	160	180	220	290
	Flour Blender	10	10	10	10
	Flour Mixer	10	*	*	*
	Sausage Mixer	10	20	20	20
	Feed-Mixer Helper	10	*	*	*
521	*Separating, Grinding, & Related Occ.*	*270*	*240*	*230*	*220*
	Grinder Operator	60	50	50	50
	Feed Grinder	110	90	90	80
	Pulp-Press Man	10	20	20	20
	Slicing-Machine Operator	70	60	60	60
522	*Culturing, Melting, & Related Occ.*	*40*	*40*	*40*	*40*
	Sugar Boiler	20	20	20	20
523	*Heating, Drying, Cooling, & Rel. Occ.*	*50*	*40*	*40*	*40*
	Icemaker	20	20	20	20
524	*Coating, Icing, & Rel. Occupations*	*100*	*110*	*110*	*130*
	Enrobing-Machine Operator	40	40	40	40
	Dipper, Hand	60	60	60	70
525	*Slaughtering, Breaking, & Rel. Occ.*	*1,090*	*1,070*	*960*	*1,010*
	Foreman, Abattoir	30	30	20	30
	Butcher, All-Around	480	450	360	410
	Boner, Meat	50	50	40	40
	Cooler Man	30	20	20	20
	Offal Man, Poultry	20	20	20	20
	Poultry Dresser	70	70	70	70
	Poultry Eviscerator	210	220	230	220
	Poultry Hanger	50	60	60	60
	Poultry-Dressing Worker	90	100	100	100
	Trimmer, Meat	20	20	10	10
526	*Cooking and Baking Occupations*	*800*	*850*	*890*	*1,080*
	Bakery Foreman	60	50	50	50
	Baker	390	470	500	650
	Doughnut-Machine Operator	10	*	*	*
	Ovenman	30	20	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Cook	10	10	10	10
	Pie Maker, Machine	10	*	10	10
	Potato-Chip Frier	10	*	10	10
	Baker Helper	260	250	240	280
529	*Occupations in Processing Food & Related Products, N.E.C.*	*1,820*	*1,540*	*1,360*	*1,240*
	Foreman, Candy	20	20	20	20
	Foreman, Refining	30	30	30	40
	Processing Foreman	20	20	20	20
	Foreman, Feed Mill	30	20	20	20
	Supervisor, Speciality Food Prod.	10	10	10	10
	Candy Maker	20	30	20	30
	Cheesemaker	30	40	50	40
	Egg Candler	40	40	40	50
	Grader, Dressed Poultry	10	10	10	10
	Buttermaker	20	*	*	*
	Cheesemaker Helper	20	40	60	50
	Dairy-Processing-Equip. Operator	90	70	60	60
	Freezer Man	20	10	10	10
	Novelty Maker	10	10	10	10
	Freezer-Man Helper	80	70	70	60
	Cannery Worker	870	700	460	400
	Dairy Helper	270	190	190	150
	Production Helper	170	180	190	190
	Laborer	10	10	10	10
54	*OCCUPATIONS IN PROCESSING PETROLEUM, COAL, NATURAL & MANUF. GAS & REL. PROD.*	*940*	*820*	*760*	*760*
541	*Filtering, Straining, Separating, and Related Occupations*	*120*	*100*	*120*	*120*
	Crude-Oil Treater	110	100	120	110
542	*Distilling, Subliming, & Carbonizing Occupations*	*250*	*230*	*180*	*120*
	Foreman, Tower	20	20	10	*
	Stillman	140	120	100	90
	Heater	10	10	10	10
	Oven-Heater Helper	50	60	40	40
543	*Drying, Heat., & Melting Occ.*	*20*	*20*	*20*	*20*
	Luterman	10	10	10	10

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
549	*Occ. in Processing Petroleum and Related Products, N.E.C.*	*540*	*460*	*430*	*450*
	Gasman, Head	10	*	*	*
	Foreman, Purification	10	20	20	30
	Pumpman	20	20	20	20
	Gasman	30	10	20	20
	Pumpman	20	10	*	*
	Treater	50	80	80	120
	Pumpman Helper	10	*	*	*
	Acetylene-Plant Operator	30	30	50	50
	Laborer, Petroleum Refinery	310	230	190	140
	Sampler (Mining)	10	*	*	*
	Sampler (Petroleum Refining)	10	20	20	30
55	*OCC. IN PROCESSING CHEMICALS, PLASTICS, RUBBER, PAINT, & RELATED PRODUCTS*	*740*	*760*	*880*	*1,120*
550	*Mixing & Blending Occupations*	*20*	*20*	*10*	*20*
	Tinter	10	*	*	*
552	*Distilling Occupations*	*20*	*30*	*20*	*20*
	Batch-Still Operator	20	20	10	10
553	*Heating, Drying, & Related Occ.*	*40*	*50*	*50*	*70*
	Drier Operator	10	10	20	20
558	*Reacting Occupations, N.E.C.*	*40*	*40*	*40*	*40*
	Disolver Operator	20	20	10	10
	CD-Reactor Operator	10	10	10	10
559	*Occ. in Processing Chemicals & Related Products, N.E.C.*	*580*	*580*	*700*	*890*
	Foreman (Rubber Goods)	20	30	20	50
	Foreman (Fertilizer)	20	20	30	40
	Foreman, Rocket Propellant Plant	140	110	100	100
	Catalyst Operator, Gasoline	40	30	20	10
	Compressor Operator	10	20	20	20
	Digester Operator	40	30	60	60
	Rubber-Goods Helper	60	100	80	170
	Tire Recapper	40	50	60	100
	Laborer, Chemical Processing	150	140	240	260

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
57	*OCCUPATIONS IN PROCESSING OF STONE, GLASS, CLAY, & RELATED PRODUCTS*	*910*	*820*	*950*	*960*
570	*Crushing, Grinding, & Mixing Occ.*	*140*	*120*	*140*	*160*
	Central-Batch-Plant Operator	10	10	20	20
	Millman	10	10	10	10
	Concrete-Mixer Operator	50	40	50	60
	Miller	30	30	40	40
	Silica-Spray Mixer	20	10	20	20
573	*Baking, Drying, & Heat-Treating Occ.*	*160*	*150*	*180*	*170*
	Fireman, Kiln	10	10	20	10
	Kiln Burner	30	30	30	30
	Lime-Kiln Operator	20	20	20	20
	Setter	50	40	50	50
	Hacker	10	*	10	10
	Kiln Cleaner	20	20	20	20
575	*Forming Occupations*	*90*	*80*	*100*	*90*
	Foreman, Wet Pour	20	20	30	30
	Brick-&-Tile-Making-Machine Oper.	20	20	20	20
	Dry-Press Operator	40	40	40	40
579	*Occupations in Processing Stone, Glass, Clay, and Related Prod., N.E.C.*	*510*	*460*	*520*	*540*
	Foreman, Board Mill	30	30	30	30
	Foreman, Concrete Block Plant	10	*	10	10
	Foreman, Lime	20	20	20	20
	Foreman	10	10	10	20
	Knifeman	10	*	10	10
	Fiber-Glass-Container-Winding Oper.	30	20	20	20
	Brake-Lining Finisher, Asbestos	120	100	120	120
	Laborer, Concrete-Mixing Plant	10	10	10	20
	Laborer, Concrete Plant	110	100	120	120
	Laborer, General	140	130	150	150
58	*OCC. IN PROCESSING LEATHER, TEXTILES, AND RELATED PRODUCTS*	*70*	*80*	*130*	*160*
582	*Washing, Steaming, & Saturating Occ.*	*20*	*30*	*40*	*50*
	Spot Cleaner	10	10	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Processing Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
589	*Occ. in Proces. Leather, Textiles, Etc., N.E.C.*	*40*	*40*	*70*	*90*
	Wool-and-Pelt Grader	10	10	10	*
	Laborer, General	10	20	40	40
59	*PROCESSING OCCUPATIONS, N.E.C.*	*960*	*740*	*700*	*750*
590	*Occ. In Proc. Prod. from Asort. Mat.*	*530*	*420*	*360*	*390*
	Processor, Solid Propellant	530	420	360	390
599	*Misc. Processing Occ., N.E.C.*	*430*	*320*	*340*	*360*
	Crusher Man	30	30	30	30
	Dipper	10	10	20	20
	Filter Operator	10	10	10	20
	Mill Operator	280	180	190	180
	Water Tender	20	20	20	20
	Mill-Operator Helper	30	10	*	*
	Washer	20	30	30	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
60	*METAL MACHINING OCCUPATIONS*	*2,750*	*3,450*	*4,100*	*5,900*
600	*Machinists & Related Occupations*	*2,000*	*2,380*	*2,830*	*3,830*
	Machine-Shop Foreman, Tool	40	40	50	60
	Machinist	1,300	1,510	1,760	2,380
	Machinist, Apprentice	220	230	230	230
	Machinist, Experimental	30	20	10	20
	Maintenance Machinist	140	160	200	270
	Job Setter	130	200	370	650
	Machine Set-Up Operator	60	110	100	70
	Lay-Out Man	60	70	70	70
601	*Toolmakers & Related Occupations*	*200*	*260*	*330*	*490*
	Tool Maker	70	80	60	70
	Tool-and-Die Maker	40	60	100	180
	Tool-Machine Set-Up Operator	20	20	20	20
	Tool-Maker Apprentice	10	20	20	10
	Inspector, Tool	30	20	30	30
	Tool Dresser	30	40	80	140
603	*Abrading Occupations*	*50*	*70*	*100*	*160*
	Grinder Operator, External Tool	20	20	10	10
	Tool-Grinder Operator	10	20	30	50
	Grinder Set-Up Operator, Centerless	20	20	40	60
604	*Turning Occupations*	*40*	*40*	*50*	*70*
	Engine-Lathe Set-Up Operator, Tool	30	40	50	60
605	*Milling and Planing Occupations*	*50*	*50*	*60*	*70*
	Milling-Machine Set-Up Oper., Tool	40	40	50	50
606	*Boring Occupations*	*60*	*80*	*110*	*180*
	Boring-Machine Set-Up Oper., Jig	10	10	*	*
	Drill-Press Set-Up Oper., Single Spindle	40	60	100	160
607	*Sawing Occupations*	*30*	*40*	*40*	*50*
	Cut-Off Saw Operator, Metal	10	20	20	30
	Do-All-Saw Operator	20	20	20	20
609	*Metal Machining Occupations, N.E.C.*	*320*	*530*	*580*	*1,050*
	Machine-Shop Foreman, Production	70	80	100	170
	Electrical-Discharge-Mach. Oper. Prod.	60	190	130	350
	Laborer, General	90	110	120	150
	Production-Machine Operator	80	120	200	330

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
61	*METALWORKING OCCUPATIONS, N.E.C.*	*1,150*	*1,370*	*1,530*	*2,200*
610	*Hammer Forging Occupations*	*110*	*110*	*120*	*140*
	Blacksmith	70	80	80	110
	Blacksmith Helper	30	30	30	30
613	*Sheet & Bar Rolling Occupations*	*80*	*90*	*70*	*60*
	Foreman, Hot-Strip Mill	10	10	10	*
	Table Operator	10	10	*	*
	Bed Operator	10	10	10	*
	Catcher	10	10	10	*
615	*Punching & Shearing Occupations*	*110*	*140*	*200*	*330*
	Flying-Shear Operator	10	10	10	20
	Punch-Press Operator, I	30	40	60	120
	Punch-Press Operator, III	20	30	50	90
	Shear Operator, I	20	20	30	40
	Shear Operator, II	10	10	10	10
616	*Fabricating Machine Occupations*	*270*	*330*	*340*	*590*
	Machine Operator	150	170	180	280
	Sheet-Metal-Fabri.-Machine Operator	30	60	50	40
	Stranding-Machine Operator	40	60	80	220
	Multi-Operation Forming-Machine Oper.	20	10	*	*
617	*Forming Occupations, N.E.C.*	*40*	*60*	*100*	*180*
	Press Operator, Heavy Duty	10	10	20	30
	Belling-Machine Operator	10	20	30	50
619	*Misc. Metalworking Occ., N.E.C.*	*530*	*630*	*700*	*890*
	Foreman, Line	30	30	40	40
	Boilmaker	10	10	20	20
	Metal Fabricator	50	50	70	90
	Ornamental-Metal Worker	30	30	30	40
	Inspector	60	70	60	70
	Sheet-Metal Production Worker	20	30	20	30
	Boiler-Shop Helper	20	30	20	20
	Forge Helper	10	10	10	10
	Machine Feeder	20	20	20	10
	Machine Feeder	210	270	350	470
62 and 63	*MECHANICS AND MACHINERY REPAIRMEN*	*11,120*	*13,510*	*13,910*	*16,560*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
620	*Motorized Vehicle & Engineering Equip. Mechanics and Repairmen*	*4,510*	*5,320*	*5,830*	*8,050*
	Automobile Mechanic Chief	30	40	40	60
	Garage Foreman	270	320	360	540
	Transportation Foreman	30	40	40	50
	Automobile Mechanic	2,500	2,930	3,320	4,690
	Automobile-Repair-Service Salesman	180	200	240	350
	Automotive-Mechanic Apprentice	190	210	240	340
	Brakeman, Automobile	30	40	40	70
	Construction-Equip. Mechanic	170	180	190	260
	Engineering-Equip. Mechanic	120	150	140	140
	Front-End Man	30	40	40	70
	Mechanic, Industrial Truck	40	30	40	50
	Mechanical Maintenance Man	210	260	280	360
	Mine Machinery Mechanic	290	270	210	300
	Automobile-Radiator Man	40	50	50	80
	Automobile-Mechanic Helper	310	450	450	540
	Wrecker	20	30	30	50
621	*Aircraft Mechanics & Repairmen*	*1,300*	*2,170*	*1,930*	*1,720*
	Foreman, Aircraft Maintenance	60	90	80	80
	Aircraft-and-Engine Mechanic	630	1,040	910	830
	Airplane Inspector	70	110	100	80
	Flight Engineer	60	100	100	140
	Hydraulic Tester	50	80	70	60
	Mechanic, Field-and-Service	90	160	140	120
	Mechanic, Aircraft Accessories	60	100	80	60
	Aircraft-and-Engine-Mechanic Helper	280	480	420	330
622	*Rail Equip. Mechanics & Repairmen*	*930*	*830*	*730*	*560*
	Carman Foreman	90	70	60	40
	Carman	500	430	370	280
	Carman Apprentice	100	110	110	100
	Carman Pullman	110	90	80	50
	Carman Helper	120	100	90	70
624	*Farm Mechanics & Repairmen*	*10*	*20*	*20*	*20*
	Farm-Equipment Mechanic	10	20	20	20
625	*Engine, Power Trans., & Rel. Mechanics*	*650*	*840*	*970*	*1,090*
	Diesel-Mechanic	560	730	840	950
	Diesel-Mechanic Apprentice	60	80	90	100
	Diesel-Mechanic Helper	10	20	20	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
626	*Metalworking Machinery Mechanics*	*1,090*	*1,220*	*1,330*	*1,660*
	Machine Repairman Maintenance	1,090	1,210	1,340	1,660
629	*Special Industry Machinery Mechanics*	*130*	*80*	*90*	*80*
	Dairy-Equipment Repairman	10	*	*	*
	Maintenance Mechanic	20	20	20	20
	Oil-Tool Maintenance Man	80	40	60	50
630	*General Industry Mechanics & Repairmen*	*120*	*110*	*120*	*150*
	Repairman	20	*	*	*
	Treatment-Plant Mechanic	40	40	50	70
	Pump-Serviceman Helper	50	40	50	50
631	*Powerplant Mechanics & Repairmen*	*30*	*30*	*30*	*40*
	Hydroelectric-Machinery Mechanic	20	20	20	30
632	*Ordnance & Accessories Mech. & Repairmen*	*160*	*260*	*230*	*190*
	Artillery-Maintenance Foreman	50	80	70	50
	Aircraft-Armament Mechanic	30	60	50	40
	Fire-Control Mechanic	10	10	10	10
	Gunsmith	40	70	60	60
	Ordnanceman	20	40	30	20
633	*Business & Commercial Machine Repairmen*	*100*	*120*	*140*	*180*
	Office-Machine Serviceman	90	110	130	170
637	*Utilities Service Mechanics & Repairmen*	*140*	*190*	*210*	*260*
	Air-Conditioning Mechanic, Commercial	20	40	40	30
	Gas-Appliance Serviceman	20	30	40	50
	Refrigeration Mechanic	90	120	130	170
638	*Misc. Occ. in Machine Install. & Rep.*	*1,790*	*2,120*	*2,070*	*2,280*
	Maintenance-Mechanic Foreman	140	150	140	160
	Master Mechanic Maintenance	140	140	200	220
	Mechanical-Maintenance-Man Foreman	20	30	20	30
	Maintenance Mechanic	970	1,300	1,210	1,320
	Millwright	240	250	230	240
	Salvage Man	20	10	20	20
	Maintenance-Mechanic Helper	230	210	220	240
639	*Mechanics & Machinery Repairmen, N.E.C.*	*80*	*120*	*150*	*220*
	Coin-Machine Serviceman	40	50	60	70
	Sewing-Machine Repairman	20	40	50	80

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
64	*PAPERWORKING OCCUPATIONS*	*260*	*390*	*460*	*690*
641	*Folding, Gluing, & Related Occupations*	*40*	*80*	*90*	*130*
	Valving-Machine Operator	10	20	30	50
	Sleever	20	30	40	60
642	*Paper Sewing Occupations*	*10*	*30*	*30*	*50*
	Bag Sewer	10	20	30	50
643	*Corrugating Occupations*	*190*	*240*	*280*	*430*
	Bindry Worker	190	240	280	430
65	*PRINTING OCCUPATIONS*	*410*	*550*	*620*	*930*
650	*Typesetters and Composers*	*20*	*30*	*40*	*50*
	Linotype Operator	20	30	40	50
651	*Printing Press Occupations*	*330*	*440*	*490*	*730*
	Cylinder-Press Man	20	30	40	50
	Flexographic-Pressman	10	20	20	30
	Off-Set Pressman	150	200	220	320
	Web-Press Man	90	110	130	200
	Web-Press Man, Apprentice	30	40	50	70
659	*Printing Occupations, N.E.C.*	*40*	*50*	*50*	*70*
	Sign Writer, Machine	30	40	40	60
66	*WOOD MACHINING OCCUPATIONS*	*790*	*930*	*1,120*	*1,190*
660	*Cabinetmakers*	*240*	*280*	*350*	*400*
	Cabinetmaker	200	240	300	350
	Cabinetmaker, Apprentice	30	30	40	40
661	*Patternmakers*	*10*	*20*	*20*	*10*
	Patternmaker, Wood	10	20	20	10
667	*Sawing Occupations*	*190*	*250*	*280*	*300*
	Cut-Off-Saw Operator	70	90	100	110
	Edger Man	10	20	20	20
	Head Sawyer	20	20	20	30
	Ripsaw Operator	20	20	20	30
	Sawmill Worker	60	80	90	90

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Machine Trades Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
669	*Wood Machining Occupations, N.E.C.*	*340*	*380*	*460*	*480*
	Foreman	60	70	90	90
	Machine Set-Up Man	10	20	20	20
	Millman	160	180	240	240
	Nailing-Machine Operator	20	20	10	10
	Woodworking-Machine Operator	20	30	30	30
	Reed-Press Feeder	20	20	20	20
67	*OCCUPATIONS IN MACHINING STONE, CLAY, GLASS, AND RELATED MATERIALS*	*130*	*310*	*240*	*570*
670	*Stonecutters & Related Occupations*	*30*	*90*	*60*	*160*
	Crystal Cutter	30	90	60	160
674	*Turning Occupations*	*60*	*190*	*140*	*360*
	Glass-Lathe Operator	60	190	140	360
679	*Occ. in Machining Stone, Clay, Glass, & Related Materials, N.E.C.*	*20*	*10*	*20*	*20*
	Bed Setter	20	10	20	20
69	*MACHINE TRADES OCCUPATIONS, N.E.C.*	*1,000*	*1,160*	*1,270*	*1,650*
690	*Plastic & Rubber Working & Rel. Occ.*	*40*	*70*	*80*	*190*
	Rubber-Goods Cutler-Finisher	20	40	40	70
692	*Occ. in Fab. of Prod. from Assort. Mater.*	*80*	*120*	*110*	*190*
	Tile-Power-Shear Operator	20	20	10	10
	Braiding-Machine Tender	40	80	60	130
693	*Modelmakers, Patternmakers, & Rel. Occ.*	*80*	*130*	*110*	*90*
	Rocket-Engine Mechanic	70	120	110	80
699	*Misc. Machine Trades Occ., N.E.C.*	*790*	*820*	*960*	*1,150*
	Production Foreman	160	220	290	460
	Riveting-Machine Operator	50	50	80	80
	Machine Cleaner	30	40	60	60
	Oiler	550	500	510	520

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
70	*OCCUPATIONS IN FABRICATION, ASSEMBLY, & REPAIR OF METAL PRODUCTS, N.E.C.*	*650*	*900*	*1,260*	*2,240*
700	*Occ. in Fabrication, Assembly, & Repair of Jewelry, Silverware, & Related Prod.*	*90*	*140*	*200*	*370*
	Jeweler	10	20	20	30
	Inspector	40	60	90	180
	Polisher	30	50	70	140
701	*Occ. in Fabrication, Assembly, & Repair of Tools and Related Products*	*30*	*60*	*50*	*40*
	Saw Filer	20	40	30	20
	Repairman, Handtools	10	20	20	10
703	*Occ. in Assembly & Repair of Sheetmetal Products, N.E.C.*	*40*	*30*	*30*	*30*
	Paternmaker	20	20	20	20
	Metal-Finish Inspector	20	10	10	10
704	*Engravers, Etchers, & Related Occ.*	*30*	*30*	*40*	*50*
	Etcher	20	20	20	20
705	*Filing, Grinding, Buffing, Cleaning, & Polishing Occupations, N.E.C.*	*40*	*50*	*60*	*120*
	Buffer	10	20	20	50
	Polisher	20	20	30	50
706	*Metal Unit Assemblers & Adjusters, N.E.C.*	*360*	*500*	*800*	*1,540*
	Assembler, Product	210	290	520	900
	Assembler, Small Parts	80	90	60	110
	Assembler, Production	70	120	210	510
709	*Misc. Occ. in Fabrication, Assembly, & Repair of Metal Products, N.E.C.*	*60*	*90*	*80*	*90*
	Locksmith	10	20	20	40
	Propellant Loader	20	30	30	20
	Babbitter	10	10	10	*
71	*OCC. IN FABRICATION AND REAPIR OF SCIENTIFIC AND MEDICAL APPARATUS, ETC.*	*870*	*1,340*	*1,310*	*1,500*
710	*Occ. in Fab. & Rep. of Instruments for Measuring, Contr., & Indi. Phys. Charac.*	*660*	*1,010*	*890*	*750*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Electromechanical Technician	30	20	20	20
	Instrument Man	240	410	360	270
	Instrument Repairman	270	430	370	300
	Meter Repairman	10	*	10	10
	Water-Meter Repairman	10	20	20	20
	Electromechanical Inspector	30	20	10	10
	Instrument-Man Helper	30	50	40	30
711	*Occ. in Fab. & Rep. of Optical Instruments and Lenses*	*20*	*30*	*30*	*80*
	Lens Grinder	20	20	30	60
712	*Occ. in Fab. & Rep. of Surg., Med., & Dental Instruments & Supplies*	*60*	*80*	*100*	*140*
	Dental-Laboratory Technician	40	50	60	90
713	*Occ. in Fab. & Rep. of Ophthalmic Goods*	*30*	*40*	*60*	*150*
	Optician	20	20	40	90
714	*Occ. in Fab. & Rep. of Photo Equip. & Sup.*	*70*	*100*	*110*	*160*
	Camera Repairman	10	10	20	20
	Technical-Maintenance Man	40	60	70	100
715	*Occ. in Fab. & Rep. of Watches, Clocks, and Parts*	*20*	*40*	*40*	*80*
	Watchmaker	20	40	40	80
72	*OCC. IN ASSEMBLY & REP. OF ELEC. EQUIP.*	*1,740*	*2,680*	*1,960*	*3,570*
720	*Occ. in Assem. & Rep. of Radio & TV Receiving Sets & Phonographs*	*120*	*160*	*190*	*340*
	TV Service and Repairman	100	150	180	330
721	*Occ. in Assem. & Rep. of Motors, Generators, and Related Products*	*180*	*240*	*230*	*310*
	Electric-Motor Analyst	60	60	50	40
	Electric-Motor Repairman	20	30	30	60
	Inspector, Motors & Generators	10	10	*	*
	Armature-Winder Helper, Repair	40	40	40	40
	Electric-Motor Winder	40	50	70	80
722	*Occ. in Assem. & Repair of Communications Equipment*	*80*	*180*	*140*	*220*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Inspector, Systems	30	90	70	160
	Inspec., Guided Missile Elec. Sys.	20	30	30	20
	Instrument Inspector	30	50	40	30
723	*Occ. in Assem, & Repair of Electrical Appliances and Fixtures*	*290*	*670*	*560*	*1,290*
	Electrical Appliance Repairman	60	70	80	120
	Refrigerator Inspector	10	20	40	80
	Appliance Repairman	40	50	60	100
	Assembler	180	530	380	990
725	*Occ. in Assembly of Light Bulbs & Electronic Tubes*	*150*	*440*	*320*	*830*
	Exhaust Operator	40	120	90	230
	Tube Assembler	110	320	230	600
726	*Occ. in Assem. & Rep. of Electronic Components & Accessories, N.E.C.*	*710*	*660*	*220*	*260*
	Foreman, Electronic Assemblies	10	40	30	80
	Inspector, Subassemblies	120	100	20	10
	Electronics Assembler	560	490	130	100
727	*Occ. in Assembly of Storage Batteries*	*20*	*40*	*30*	*50*
	Battery Repairman	10	20	20	20
729	*Occ. in Assembly & Rep. of Electrical Equipment, N.E.C.*	*170*	*280*	*260*	*250*
	Electrical Instrument Repairman	110	180	160	130
	Street-Light Repairman	10	10	10	20
	Tester, Systems	40	70	70	50
73	*OCCUPATIONS IN FABRICATION & REPAIR OF PRODUCTS MADE FROM ASSORTED MATERIALS*	*730*	*1,220*	*1,760*	*2,720*
730	*Occ. in Fab. & Rep. of Musical Instruments and Parts*	*60*	*60*	*60*	*80*
	Musical Instrument Repairman	30	30	40	40
	Pipe-Organ Tuner & Repairman	10	20	20	20
732	*Occupations in Fabrication & Repair of Sporting Goods*	*20*	*20*	*20*	*30*
	Sports-Equipment Repairman	10	20	20	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
733	*Occ. in Fab. & Rep. of Pens, Pencils, & Office & Artists' Materials, N.E.C.*	*10*	*20*	*30*	*50*
	Rubber Stamp Maker	10	20	30	50
735	*Occ. in Fab. & Rep. of Jewelry, N.E.C.*	*20*	*20*	*40*	*70*
	Bench Hand	10	20	30	70
736	*Occ. in Fab. & Rep. of Ordnance & Acces.*	*80*	*90*	*80*	*80*
	Process Inspector	40	30	30	30
	Proof-Technician Helper	30	50	40	30
737	*Occ. in Fab. of Ammunition, Fireworks, Explosives, & Related Products*	*30*	*50*	*50*	*40*
	Inspection Foreman	10	20	20	10
	Inspector, I	10	20	20	10
739	*Occ. in Fab. & Rep. of Prod. Made From Assorted Materials, N.E.C.*	*480*	*930*	*1,440*	*2,320*
	Canvas Worker	10	20	20	30
	Fire-Equipment Man	220	380	330	250
	Broommaker	30	50	60	100
	Diamond Mounter	170	260	490	860
	Assembler, Small Products	20	180	470	980
74	*PAINTING, DECORATING, & RELATED OCC.*	*130*	*170*	*240*	*370*
740	*Painters, Brush*	*30*	*50*	*70*	*140*
	Enameler	30	50	70	140
741	*Painters, Spray*	*100*	*120*	*160*	*230*
	Painter, Spray, I	70	90	120	180
	Spray-Painting-Machine Operator	10	*	10	20
	Painter, Spray, II	10	10	20	20
75	*OCC. IN FABRICATION & REPAIR OF PLASTICS, SYN., RUBBER, & RELATED PROD.*	*120*	*200*	*200*	*320*
752	*Fitting, Shaping, Cementing, Finishing, and Related Work, N.E.C.*	*40*	*70*	*50*	*110*
	Hose Maker	40	60	50	110

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
754	*Occ. in Fab. & Rep. of Misc. Plastic Products*	*60*	*110*	*120*	*180*
	Plastics Bench Mechanic	30	60	50	40
76	*OCC. IN FAB. & REPAIR OF WOOD PROD.*	*230*	*330*	*310*	*280*
760	*Bench Carpenters & Related Occupations*	*60*	*100*	*80*	*60*
	Box Maker, Wood	60	100	80	60
763	*Occ. in Fab. & Rep. of Furniture, N.E.C.*	*50*	*60*	*60*	*70*
	Furniture Finisher	30	30	30	40
	Furniture Assembler	10	20	20	30
769	*Occ. in Fab. & Rep. of Wood Prod., N.E.C.*	*110*	*160*	*160*	*140*
	Woodworking-Shop Hand	100	160	150	130
77	*OCC. IN FABRICATION & REPAIR OF SAND, STONE, CLAY, AND GLASS PRODUCTS*	*50*	*50*	*80*	*130*
770	*Occ. in Fab. & Rep. of Jewelry, Ornaments, and Related Products*	*10*	*20*	*30*	*60*
	Rolled-Gold Plater	10	20	30	60
772	*Glass Blowing, Pressing, Shaping, & Related Occupations, N.E.C.*	*20*	*20*	*30*	*50*
	Glass Bender	10	20	30	50
78	*OCCUPATIONS IN FABRICATION & REPAIR OF TEXTILE, LEATHER, & RELATED PRODUCTS*	*3,610*	*5,630*	*7,320*	*7*
780	*Occ. in Upholstering & in Fab. & Rep. of Mattresses & Bedsprings*	*210*	*240*	*320*	*410*
	Automobile Upholsterer	30	40	40	70
	Casket Liner	10	10	20	40
	Mattress Maker	20	20	30	30
	Spring Assembler	20	30	40	40
	Upholsterer	70	70	80	90
	Upholsterer Helper	10	10	20	20
781	*Laying Out, Marking, Cutting, & Punching Occupations, N.E.C.*	*220*	*350*	*470*	*690*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Bench Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Assembler	20	50	60	110
	Cutter, Hand	40	60	60	100
	Cutter, Machine	110	140	200	280
	Spreader	10	30	40	60
782	*Hand Sewers, Menders, Embroiderers, Knitters, and Related Occupations, N.E.C.*	*370*	*390*	*430*	*660*
	Seamstress	230	180	140	230
	Sewer, Hand	110	170	230	350
783	*Fur Working Occupations*	*30*	*30*	*40*	*60*
	Fur Finisher	30	30	40	60
785	*Tailors and Dressmakers*	*410*	*510*	*590*	*810*
	Alteration Tailor	320	370	440	580
	Seamstress	50	90	100	160
	Shop Tailor	30	30	40	60
786	*Sewing Machine Operators, Garment*	*1,680*	*2,940*	*3,990*	*6,070*
	Edger	20	40	40	70
	Setter, Garment Parts	30	50	100	150
	Sewing-Machine Operator	120	90	100	110
	Sewing-Machine Operator, Reg. Equip.	1,440	2,600	3,570	5,470
	Zipper Sewer	20	50	40	60
	Fastener-Sewing-Machine Operator	20	50	20	40
787	*Sewing Machine Operators, Nongarment*	*470*	*700*	*890*	*1,210*
	Drapery Operator	50	60	90	120
	Embroidery-Machine Operator	100	90	110	150
	Sewing-Machine Oper. (House Furn.)	80	70	80	90
	Sewing-Machine Oper. (Textile Bags)	30	50	70	90
	Sewing-Machine Oper., All-Around	90	160	170	230
	Sewing-Machine Oper., Regular Equip.	100	210	280	390
789	*Occ. in Fabrication & Repair of Textile, Leather, and Related Products, N.E.C.*	*220*	*460*	*590*	*920*
	Foreman, Sewing Room	50	100	140	220
	Garment Inspector	60	150	200	340
	Saddle Maker	20	20	30	30
	Trimming-Machine Operator	10	40	50	90
	Garment Folder	10	20	30	50
	Laborer, Canvas Shop	30	50	50	50

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
80	*OCC. IN METAL FABRICATION, N.E.C.*	*3,200*	*3,970*	*4,710*	*5,790*
801	*Fitting, Bolting, Screwing, & Related Occupations*	*390*	*370*	*480*	*590*
	Fitter	20	20	20	20
	Aircraft Mechanic, Armament	20	30	30	20
	Structural-Steel Worker	330	300	400	520
	Reinforcing-Iron Worker	10	10	10	10
804	*Tinsmiths, Coppersmiths, & Sheet-Metal Workers*	*1,050*	*1,150*	*1,390*	*1,870*
	Sheet-Metal Worker	630	670	810	1,050
	Sheet-Metal Worker, Apprentice	100	100	130	160
	Metal-Fabricating Shop Helper	310	370	450	640
805	*Boilermakers*	*350*	*360*	*370*	*400*
	Boilermaker Foreman	20	10	20	20
	Boilermaker	240	250	250	260
	Boilermaker Mechanic	30	40	40	40
	Boilermaker Helper	60	50	60	70
806	*Transp. Equip. Assem. & Rel. Occ.*	*210*	*520*	*820*	*940*
	Foreman, Truck-Trailer Assembly	20	50	70	80
	Trailer Assembler	180	440	720	810
807	*Bodymen, Transp. Equipment*	*750*	*1,110*	*1,100*	*1,280*
	Automobile-Body Repairman	360	440	480	720
	Skin Man	370	630	550	420
809	*Misc. Occ. in Metal Fab., N.E.C.*	*450*	*460*	*540*	*710*
	Foreman, Metal Fabricating	70	70	80	100
	Structural-Steel-Erector Foreman	30	20	40	50
	Fabricator-Assembler, Metal Prod.	10	20	40	60
	Ornamental-Iron Worker	20	20	20	20
	Grinder-Chipper	60	90	150	250
	Helper, Manufacturing	90	80	40	30
	Laborer, Steel Handling	150	140	150	160
81	*WELDERS, FLAME CUTTERS, & REL. OCC*	*1,810*	*2,060*	*2,390*	*3,150*
810	*Arc Welders*	*40*	*60*	*100*	*190*
	Welder, Spot	10	20	30	70
	Welder, Arc	30	40	60	110

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
811	*Gas Welders*	*70*	*70*	*90*	*130*
	Welder, Gas	70	70	90	130
812	*Combination Arc Welders & Gas Welders*	*1,170*	*1,320*	*1,560*	*2,050*
	Welder Apprentice, Combination	10	10	10	10
	Welder, Combination	970	1,100	1,350	1,780
	Welder, Production Line	160	180	170	200
	Welder, Repair	30	30	20	40
815	*Lead Burning Occupations*	*10*	*20*	*20*	*20*
	Lead Burner	10	20	20	20
816	*Flame Cutters and Arc Cutters*	*190*	*220*	*220*	*280*
	Flame-Cutting Tracer-Machine Oper.	20	20	20	20
	Flame Cutter, Hand, I	70	80	100	130
	Flame Cutter, Hand, II	100	110	100	120
819	*Welders, Flame Cutters, & Related Occupations, N.E.C.*	*330*	*370*	*400*	*480*
	Welder-Fitter	210	230	230	270
	Welder Helper	100	120	140	180
82	*ELECTRICAL ASSEM., INSTAL., & REP. OCC.*	*4,660*	*5,720*	*6,080*	*7,090*
821	*Occ. in Assem., Instal., & Rep. of Transmission & Distrib. Lines & Circuts*	*540*	*580*	*640*	*820*
	Electrical-Installation Inspector	20	20	20	30
	Line Foreman	40	40	50	60
	Lineman	70	80	80	90
	Electrolysis Tester	30	40	40	30
	Lineman	170	170	180	240
	Lineman, Apprentice	70	80	90	120
	Lineman, Repair	70	80	90	120
	Groundman	70	70	80	100
822	*Occ. in Assem., Instal., & Rep. of Wire Comm., Detection, & Signaling Equipment*	*1,030*	*1,180*	*1,350*	*1,600*
	Central-Office-Repairman Supervisor	40	40	60	70
	Repairman Foreman	20	40	40	60
	Automatic-Equipment Technician	20	20	20	20
	Central-Office Repairman	450	500	520	550
	Communication Engineer	10	10	10	10

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Communication Man	70	120	140	220
	Installer Repairman	260	280	370	480
	Signal Maintainer	10	20	10	20
	Lineman	80	90	100	100
	Test Deskman	30	30	30	30
823	*Occ. in Assem., Instal., & Rep. of Elec. Comm., Detection, & Signaling Equip.*	*120*	*180*	*170*	*160*
	Meterological-Equipment Repairman	10	10	*	*
	Radio Mechanic	20	30	30	40
	Radio Mechanic, Aircraft Installations	70	120	100	80
824	*Occ. in Assem., Instal., & Rep. of Lighting Equip. & Bldg. Wiring, N.E.C.*	*1,450*	*1,570*	*1,800*	*2,190*
	Electric-Distribution Checker	20	30	50	80
	Electrician	1,220	1,320	1,490	1,780
	Electrician Apprentice	170	180	200	220
	Neon-Sign Serviceman	20	20	40	60
	Electrician, Stage	10	20	20	30
825	*Occ. in Assem. Instal., & Rep. of Trans. & Materials Handling Equip., N.E.C.*	*250*	*420*	*390*	*370*
	Electrical Repairman	20	30	30	20
	Electrician, Airplane	150	260	220	170
	Electrician, Automotive	20	20	20	50
	Electrical Inspector	30	50	50	40
	Elevator Constructor	30	40	40	60
827	*Occ. in Assem., Instal., & Rep. of Large Household Appliances & Similar Commercial and Industrial Equipment*	*90*	*120*	*120*	*190*
	Electrical-Appliance-Serviceman Foreman	10	20	20	40
	Electrical-Appliance Serviceman	60	70	70	100
	Electrical-Appli.-Serviceman Helper	10	10	10	20
828	*Occ. in Fab., Instal., & Rep. of Elec. & Electronic Products, N.E.C.*	*620*	*1,050*	*970*	*1,010*
	Electronics Mechanic	460	780	720	830
	Electronics Mechanic Apprentice	160	270	240	180
829	*Occ. in Assem., Instal., & Rep. of Electrical Products, N.E.C.*	*540*	*620*	*640*	*750*
	Electrician Foreman	100	100	120	160

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Electrical Repairman	160	180	160	200
	Pinsetter Mechanic, Automatic	30	40	50	60
	Cable Splicer	100	110	110	120
	Cable-Splicer Apprentice	10	10	10	10
	Elevator-Repairman Helper	20	20	20	30
	Electrician Helper	90	130	130	120
84	*PAINTING, PLASTERING, WATERPROFFING, CEMENTING, & RELATED OCCUPATIONS*	*2,390*	*2,340*	*2,690*	*3,700*
840	*Construction & Maintenance Painters and Related Occupations*	*1,240*	*1,300*	*1,370*	*1,840*
	Painter Foreman	40	50	60	60
	Painter	1,150	1,190	1,240	1,670
	Painter, Rough	10	20	20	20
	Painter, Structural Steel	20	20	20	30
	Painter Helper	10	20	30	60
842	*Plasterers and Related Occupations*	*480*	*370*	*490*	*660*
	Lather	160	120	140	200
	Plasterer	140	100	120	150
	Dry-Wall Applicator	60	50	80	110
	Taper	90	80	120	160
	Plasterer Helper	30	20	30	40
843	*Waterproofing and Related Occupations*	*40*	*40*	*50*	*80*
	Metal Sprayer, Corrosion Prevention	10	20	20	40
	Calker	20	10	20	30
844	*Cement & Concrete Finishing & Related Occupations*	*430*	*400*	*520*	*680*
	Cement Mason	360	330	430	580
	Cement Mason, Maintenance	40	30	40	40
	Cement-Gun-Mixing-Machine Operator	10	10	10	20
	Cement Mason Helper	10	20	30	40
845	*Trans. Equip. Painters & Related Occ.*	*150*	*180*	*210*	*380*
	Painter, Automobile	100	120	140	250
	Painter Helper, Automobile	50	60	60	120
85	*EXCAVATING, GRADING, PAVING, & REL. OCC.*	*3,370*	*3,790*	*4,230*	*5,570*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
850	*Excavating, Grading, & Rel. Occ.*	*650*	*730*	*790*	*960*
	Labor-Gang Foreman	50	60	70	90
	Bulldozer Operator	200	210	220	240
	Power-Shovel Operator	200	230	250	280
	Trench-Digging-Machine Operator	10	10	10	10
	Laborer, Pile Driving Ground Work	30	20	20	40
	Laborer, Road	150	180	200	290
851	*Drainage & Related Occupations*	*140*	*150*	*160*	*210*
	Blade-Grader Operator	90	80	90	130
	Motor-Grader Operator	40	50	50	60
	Pipe Layer	10	10	20	20
852	*Concrete Paving Occupations*	*190*	*180*	*190*	*290*
	Cement Mason, Highways & Streets	30	20	30	40
	Joint Filler	10	10	*	*
	Laborer, Concrete Paving	140	140	140	220
853	*Asphalt Paving Occupations*	*20*	*20*	*30*	*40*
	Asphalt-Plant Operator	10	10	20	20
859	*Excavating, Grading, Paving, & Related Occupations, N.E.C.*	*2,370*	*2,710*	*3,060*	*4,070*
	Driller, Water Well	20	20	30	40
	Dragline Operator	20	20	20	30
	Operating Engineer	2,150	2,460	2,820	3,770
	Operating Engineer Apprentice	10	20	30	40
	Crusher Operator	10	10	10	10
	Air-Hammer Operator	100	100	90	80
	Well-Digger Helper	20	20	20	30
86	*CONSTRUCTION OCCUPATIONS, N.E.C.*	*11,180*	*10,680*	*12,750*	*16,400*
860	*Carpenters & Related Occupations*	*4,400*	*4,300*	*5,250*	*7,160*
	Carpenter Foreman	240	200	260	380
	Carpenter, Maintenance	200	210	230	300
	Acoustical Carpenter	70	50	50	70
	Carpenter	2,540	2,360	2,900	4,000
	Carpenter Apprentice	120	130	140	150
	Carpenter Helper, Maintenance	150	190	190	200
	Carpenter Helper, Hardwood Flooring	30	50	80	100
	Laborer, Carpentry	1,040	1,090	1,360	1,910

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
861	*Brick & Stone Masons & Tile Setters*	*1,180*	*870*	*980*	*1,250*
	Bricklayer Foreman	20	10	10	20
	Bricklayer	430	300	350	470
	Bricklayer, Refractory Brick	80	90	70	60
	Stonemason	70	50	60	80
	Tile Setter	210	150	170	230
	Tile-Setter Apprentice	30	20	30	40
	Patcher	20	20	10	10
	Terrazzo-Worker Helper	10	*	10	10
	Tile-Setter Helper	70	50	60	80
	Bricklayer Helper	140	90	110	140
	Bricklayer Helper, Refractory Brick	20	10	20	20
	Patcher Helper	20	20	20	10
	Stonemason Helper	50	30	40	50
862	*Plumbers, Gas Fitters, Steam Fitting, and Related Occupations*	*1,390*	*1,500*	*1,700*	*2,090*
	Pipe-Fitter Foreman	10	10	20	20
	Plumber Foreman	20	20	30	40
	Water-and-Sewer-System Foreman	40	50	60	80
	Airdox Man	40	50	50	50
	Maintenance Man, Sewer-and-Waterworks	110	130	140	200
	Pipe Fitter	290	300	290	330
	Pipe Fitter, Maintenance	50	80	70	60
	Pipe Fitter, Welding	20	10	*	*
	Pipe Fitter, Apprentice	30	30	30	30
	Pipe Fitter, Sprinkler System	40	40	50	70
	Plumber	360	400	500	670
	Plumber Apprentice	10	20	20	30
	Plumber, Maintenance	20	30	30	40
	Steam Serviceman	20	20	20	20
	Water-Test Man	40	40	50	70
	Furnaceman Helper	60	50	60	70
	Laborer, Constr. or Leak Gang	40	50	50	60
	Pipe Calker	10	20	20	20
	Pipe Fitter Helper	30	30	30	40
	Plumber Helper	60	60	80	110
	Laborer, Plumbing	40	40	50	70
863	*Asbestos and Insulation Workers*	*170*	*160*	*210*	*260*
	Insulation-Blanket Maker	20	10	20	30

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Insulation Hoseman	50	50	60	50
	Insulation Installer	80	80	120	160
	Insulation Worker	10	10	*	10
864	*Floor Laying and Finishing Occ.*	*100*	*90*	*150*	*160*
	Floor Layer	90	80	120	140
865	*Glaziers and Related Occupations*	*90*	*80*	*90*	*110*
	Glazier	60	50	50	50
	Glazier Apprentice	20	10	20	20
	Glass Installer	10	20	20	30
866	*Roofers & Related Occupations*	*380*	*330*	*390*	*510*
	Roofer	310	260	320	410
	Roofer Apprentice	10	*	10	20
	Roofer Helper	60	50	60	80
869	*Misc. Construction Occ., N.E.C.*	*3,470*	*3,350*	*3,980*	*4,860*
	Foreman, Maintenance-and-Const.	30	20	20	20
	Furnace Installer-and-Repairman	370	330	380	430
	House Mover	50	50	80	90
	Sign Erector, I	20	30	50	80
	Awning Hanger	180	160	180	200
	Brattice Man	10	10	*	20
	Construction Worker, I	580	640	850	1,110
	Fence Erector	90	80	90	120
	Roustabout	100	60	80	70
	Sign Erector, II	10	20	20	20
	Wrecker	160	140	160	170
	Awning-Hanger Helper	50	40	40	70
	Construction Worker, II	980	850	1,070	1,430
	Furnace-Installer-&-Repairman Helper	70	80	100	130
	Hod Carrier	50	40	60	80
	Stakeman	30	40	50	70
	Trackman	660	760	720	720
89	*STRUCTURAL WORK OCCUPATIONS, N.E.C.*	*2,280*	*2,800*	*3,080*	*4,040*
891	*Occ. in Structural Maintenance, N.E.C.*	*220*	*270*	*280*	*340*
	Maintenance Foreman	160	190	200	250
	Steam-Cleaning-Machine Operator	10	20	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Structural Work Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Furnace Cleaner	30	30	40	50
	Tube Cleaner	20	20	10	10
892	*Hoisting & Conveying Occ., N.E.C.*	*200*	*220*	*220*	*220*
	Laborer, Hoisting	200	220	220	220
899	*Misc. Structural Work Occ., N.E.C.*	*1,860*	*2,310*	*2,580*	*3,480*
	Foreman, Labor Gang	260	290	350	460
	Canal-Equipment Mechanic	20	20	20	20
	Maintenance Man, Factory or Mill	160	160	160	190
	Maintenance Man, Building	860	1,200	1,360	1,860
	Highway-Maintenance Man	460	530	580	800
	Maintenance-Man Helper, Factory or Mill	20	30	30	40
	Shaftman	20	30	30	40
	Maintenance-Man Helper, Building	20	30	30	40

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* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
90	*MOTOR FREIGHT OCCUPATIONS*	*8,620*	*9,630*	*11,000*	*12,800*
900	*Concrete-Mixing-Truck Drivers*	*190*	*170*	*200*	*200*
	Concrete-Mixing-Truck Driver	190	170	200	200
902	*Dump-Truck Drivers*	*460*	*460*	*510*	*630*
	Dump-Truck Driver	260	260	310	350
	Dump-Truck Driver, Off-Highway	200	200	200	280
903	*Truck Drivers, Inflammables*	*170*	*270*	*270*	*390*
	Tank-Truck Driver	170	270	270	390
904	*Trailer-Truck Drivers*	*2,780*	*3,200*	*3,800*	*4,110*
	Log-Truck Driver	30	30	40	40
	Tractor-Trailer-Truck Driver	2,750	3,160	3,760	4,060
905	*Truck Drivers, Heavy*	*1,990*	*2,020*	*2,280*	*2,720*
	Milk Driver	50	40	40	40
	Truck Driver, Heavy	1,690	1,720	1,940	2,350
	Truck Driver Helper	240	240	280	320
906	*Truck Drivers, Light*	*2,600*	*3,050*	*3,430*	*4,120*
	Telephone-Directory Distributor	30	50	40	40
	Truck Driver, Light	2,570	3,000	3,390	4,080
909	*Motor Freight Occupations, N.E.C.*	*430*	*460*	*510*	*630*
	Truck Foreman	20	20	30	30
	Warehouse Foreman	20	20	20	20
	Garbage-Collection Foreman	20	20	30	40
	Garbage Collector, I	30	40	40	60
	Van Driver	180	180	200	210
	Garbage Collector, II	150	170	180	250
91	*TRANSPORTATION OCCUPATIONS, N.E.C.*	*12,550*	*12,950*	*13,300*	*15,200*
910	*Railroad Transportation Occupations*	*5,490*	*4,850*	*4,270*	*3,330*
	Freight-Loading Foreman	10	10	*	*
	Baggage-and-Mail Agent	20	20	20	10
	Conductor, Yard	160	170	140	120
	Station Agent	20	20	10	20
	Railroad-Car Inspector	230	230	200	130
	Way Inspector	20	20	10	10

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Car Distributor	20	20	20	10
	Fireman, Locomotive	440	350	300	200
	Locomotive Engineer	1,080	870	740	500
	Yard Clerk	80	60	50	40
	Car Inspector	20	20	20	20
	Track Walker	50	60	60	60
	Train Clerk	110	100	90	100
	Towerman	20	30	30	20
	Track Repairman	130	100	90	60
	Fireman, Yard	80	90	70	70
	Track-Moving-Machine Operator	50	60	60	60
	Yard Engineer	230	270	250	240
	Brakeman, Road Freight	1,440	1,150	980	670
	Brakeman, Yard	300	370	350	340
	Baggageman	80	60	60	40
	Car Icer	40	40	50	40
	Switch Tender	710	660	610	510
912	*Air Transportation Occupations*	*350*	*550*	*550*	*740*
	Cargo Agent	20	30	30	20
	Reservations Agent	20	20	30	40
	Transportation Agent	190	270	290	460
	Airport Serviceman	20	30	30	50
	Parachute Rigger	10	20	20	30
	Laborer, Airport Maintenance	80	130	120	90
	Lineman	10	30	30	30
913	*Passenger Trans. Occupations, N.E.C.*	*1,300*	*1,500*	*1,750*	*2,300*
	Road Supervisor	10	*	*	*
	Dispatcher, Bus and Trolley	40	30	30	30
	Bus Driver	270	240	300	420
	Bus Driver, School	490	760	890	1,170
	Taxi Driver	210	160	160	160
	Transit Operator	150	140	170	240
	Ambulance Driver	40	40	50	60
	Chauffeur	80	100	120	180
914	*Pumping & Pipeline Transportation Occ.*	*410*	*300*	*340*	*360*
	Gager Chief	30	20	20	30
	Dispatcher Chief	10	10	10	10
	Gager	20	*	10	10
	Oil Pumper	200	110	140	140
	Pumpman	130	130	130	140
	Pumpman Helper	10	20	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
915	*Attendants & Servicemen, Parking Lots & Service Facilities*	*4,000*	*4,770*	*5,310*	*6,950*
	Car-Wash Supervisor	10	10	10	30
	Automobile-Service-Station Attendants	2,960	3,570	3,910	4,840
	Parking-Lot Attendants	240	280	320	540
	Parking-Lot Chauffeur	120	140	160	350
	Hostler	50	60	80	80
	Garageman, Industrial	40	40	50	60
	Tire Repairman	140	160	190	240
	Lubrication Man	270	310	370	500
	Porter Used-Car Lot	140	150	180	250
	Steam Cleaner	20	30	30	40
919	*Misc. Transportation Occ., N.E.C.*	*1,000*	*980*	*1,080*	*1,520*
	Dispatcher, Motor Vehicle	160	190	210	210
	Ticket Agent	130	150	170	230
	Over-Short-and-Damage Clerk	10	20	20	20
	Car-Rental Clerk	30	30	30	60
	Deliveryman, Car Rental	10	20	20	40
	Motorman	360	260	290	410
	Cleaner	270	280	300	490
92	*PACKAGING & MATERIAL HANDLING, OCC.*	*12,780*	*16,680*	*16,630*	*17,850*
920	*Packaging Occupations*	*2,980*	*4,310*	*4,060*	*4,440*
	Packaging Foreman	110	120	120	100
	Crater	130	220	200	190
	Packager, Machine	680	740	760	790
	Packaging Laborer	50	460	140	110
	Bagger	740	1,000	1,090	1,420
	Marker	20	20	20	20
	Packager, Hand	1,140	1,620	1,590	1,680
	Shipping Processor	40	70	60	50
921	*Hoisting & Conveying Occupations*	*1,050*	*1,020*	*980*	*1,070*
	Conveyor Operator	130	110	120	130
	Elec.-Bridge-or-Gantry-Crane Oper.	460	460	430	430
	Electric-Monorail-Crane Operator	30	30	30	30
	Elevator Operator, Freight	20	20	30	40
	Hoisting Engineer	100	90	90	110
	Hoistman	100	80	80	90
	Locomotive-Crane Operator	60	60	60	60

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Tractor-Crane Operator	60	60	60	60
	Truck-Crane Operator	50	40	40	40
922	*Occ. in Moving & Storing Mat., N.E.C.*	*5,010*	*6,130*	*6,610*	*7,580*
	Platform Foreman	30	30	40	40
	Industrial-Truck Operator	400	490	500	460
	Straddle-Truck Operator	10	20	20	40
	Cement Loader and Sucker	70	60	70	70
	Dump Operator	30	20	20	40
	Laborer, Heading	40	50	50	100
	Laborer, Stores	3,860	4,830	5,170	5,980
	Loader	50	50	60	70
	Lumber, Handler	210	270	300	320
	Wool Sacker	40	50	80	140
	Yardman	250	220	260	280
929	*Packaging & Materials Handling Occupations, N.E.C.*	*3,740*	*5,220*	*4,980*	*4,760*
	Materials-Handling Foreman	30	30	30	30
	Yardman	180	160	190	210
	Warehouse Foreman	390	580	560	540
	Tractor Operator	160	160	170	200
	Laborer, Bakery	90	70	70	80
	Dumper	90	100	90	100
	Laborer, Salvage	40	50	50	70
	Material Handler	2,620	3,830	3,610	3,370
	Munitions Handler	110	190	160	130
93	*OCCUPATIONS IN EXTRACTION OF MINERALS*	*3,670*	*3,030*	*3,140*	*4,000*
930	*Boring, Drilling, Cutting, & Rel. Occ.*	*970*	*740*	*840*	*1,190*
	Tool Pusher	30	10	20	20
	Core-Drill Operator	130	170	190	260
	Derrickman	40	20	30	30
	Driller, Machine	30	40	40	80
	Drilling-Machine Operator	60	50	60	60
	Prospecting Driller	20	30	40	50
	Rotary Driller	70	40	60	60
	Continuous-Mining-Machine Operator	140	80	80	160
	Cutter Operator	20	20	10	20
	Roof Bolter	170	100	100	200
	Quarryman	30	20	20	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Rotary-Driller Helper	150	90	130	120
	Cutter-Operator Helper	40	20	20	40
	Driller Helper	20	10	20	20
931	*Blasting Occupations*	*80*	*50*	*50*	*90*
	Blaster	70	50	40	80
932	*Loading & Conveying Occupations*	*570*	*380*	*380*	*660*
	Dispatcher	60	50	50	70
	Car Dropper	40	20	20	30
	Loading-Machine Operator	150	90	90	170
	Shuttle-Car Operator	260	180	180	310
	Brakeman	30	20	20	30
934	*Screening & Related Occupations*	*50*	*60*	*80*	*90*
	Footman	50	50	80	80
939	*Occ. in Extraction of Minerals, N.E.C.*	*2,000*	*1,800*	*1,790*	*1,970*
	Foreman, Pond	30	20	40	40
	Foreman, Production	70	40	50	50
	Pit Foreman	20	20	30	20
	Section Foreman	160	140	130	170
	Miner	730	730	650	700
	Timberman	180	160	170	220
	Fire Boss	10	*	*	20
	Pumper Head	20	10	*	*
	Lampman	30	20	20	40
	Observer Helper, Seismic Prospecting	40	20	30	30
	Cager	40	50	50	60
	Company Laborer	360	320	320	360
	Laborer	270	220	240	230
95	*OCC. IN PROD. & DISTRIBUTION OF UTIL.*	*1,580*	*1,730*	*1,800*	*2,250*
950	*Stationary Engineers*	*650*	*730*	*730*	*860*
	Stationary-Engineer Foreman	40	50	40	40
	Boiler Operator	100	130	120	110
	Gas-Compressor Operator	20	20	20	20
	Rotary-Rig Engineman	40	20	30	30
	Stationary Engineer	310	350	370	500
	Stationary-Engineer Apprentice	20	10	10	10
	Air-Compressor Operator	10	20	10	10

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Boiler-Room Helper	90	100	80	70
	Ventilation Man	20	30	30	40
951	*Firemen and Related Occupations*	*210*	*210*	*230*	*280*
	Fireman, High Pressure	200	200	220	260
952	*Occ. in Generation, Transmission, & Distrib. of Elec. Light & Power*	*210*	*220*	*230*	*310*
	Auxiliary-Equipment Operator	40	40	40	60
	Hydroelectric-Station Operator	40	40	50	60
	Power-Plant Operator	20	20	20	30
	Substation Operator	70	80	80	120
953	*Occ. in Production & Distrib. of Gas*	*140*	*150*	*160*	*190*
	Service Foreman	90	90	100	130
	Gas-Meter Installer	40	50	50	60
954	*Occ. in Filtration, Purification, & Distribution of Water*	*200*	*220*	*240*	*330*
	Ditch Rider	30	30	30	50
	Water-Treatment-Plant Operator	110	120	130	170
	Watershed Tender	10	20	20	30
	Water-Filter Cleaner	10	*	*	*
955	*Occ. in Disposal of Refuse & Sewage*	*50*	*70*	*70*	*90*
	Sewage-Plant Operator	30	40	40	60
957	*Occ. in Transmission of Communications, N.E.C.*	*30*	*40*	*40*	*50*
	Audio Operator	10	10	20	20
	Control-Room Technician	10	20	20	30
959	*Occ. in Production & Distribution of Utilities, N.E.C.*	*90*	*90*	*100*	*130*
	Dispatcher, Chief, Service or Work	10	10	10	20
	Dispatcher, Service	30	30	30	40
	Tree Trimmer	40	40	40	60
96	*AMUSEMENT, RECREATION, & MOTION PICTURE OCCUPATIONS*	*350*	*410*	*460*	*630*
960	*Motion Picture Projectionists*	*260*	*300*	*330*	*470*

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
	Motion-Picture Projectionist	260	300	330	470
962	*Occ. in Production of Motion Pictures, N.E.C.*	*30*	*40*	*50*	*60*
	Editor, File	20	30	40	50
964	*Occ. in Theatrical & Related Entertainment Production, N.E.C.*	*20*	*20*	*20*	*20*
	Property Man	10	10	20	20
969	*Misc. Amusement, Recreation, & Motion Picture Occupations, N.E.C.*	*30*	*20*	*30*	*40*
	Iceman, Skating Rink	10	10	20	10
97	*OCCUPATIONS IN GRAPHIC ART WORK*	*1,370*	*1,730*	*1,990*	*2,930*
970	*Art Work Occ., Brush, Spray, or Pen*	*120*	*140*	*160*	*210*
	Photograph Retoucher	50	60	70	90
	Lay-Out Man	10	10	10	10
	Painter, Sign	60	60	70	100
971	*Photoengraving Occupations*	*70*	*90*	*100*	*120*
	Lithographer	10	*	*	*
	Photoengraving Finisher	20	30	30	20
	Photographer, Photoengraving	20	30	30	40
972	*Lithographers & Related Occupations*	*20*	*30*	*30*	*40*
	Photographer, Lithographic	10	20	20	30
973	*Hand Comp., Typeset., & Rel. Occ.*	*560*	*710*	*830*	*1,270*
	Compositor	500	630	740	1,140
	Job Printer	60	70	90	130
975	*Stereotypers & Related Occupations*	*70*	*80*	*100*	*150*
	Stereotyper	70	80	100	150
976	*Darkroom Occupations, N.E.C.*	*140*	*180*	*210*	*270*
	Developer	90	110	120	140
	Film Developer	10	20	30	50
	Splicer	20	20	20	20
	Photograph Finisher	10	10	10	20

* Less than 10.

OCCUPATIONS OF EMPLOYEES ON UTAH NONAGRICULTURAL PAYROLLS

Miscellaneous Occupations (Continued)

Occupational Code	Occupational Title	Employment 1960	1967	1971	Proj. 1980
977	*Bookbinders and Related Occupations*	*190*	*240*	*270*	*420*
	Bookbinder	130	160	190	290
	Stitcher, Hand	30	40	40	70
	Case-Making-Machine Operator	20	20	30	40
979	*Occupations in Graphic Art Work, N.E.C.*	*200*	*260*	*290*	*440*
	Copy Cameraman	20	30	40	50
	Engraver	30	40	40	60
	Blueprinting-Machine Operator	20	20	10	10
	Silk-Screen Printer	20	20	30	40
	Print-Shop Helper	110	150	170	260

* Less than 10.

APPENDIX

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
TOTAL	264,945	331,163	370,874	490,300
Mining	*13,844*	*12,350*	*12,223*	*13,800*
Metal Mining	8,506	8,642	8,565	8,400
Iron Ores	512	247	286	300
Copper Ores	5,031	6,252	6,009	5,800
Lead and Zinc Ores	981	1,059	1,118	1,200
Gold and Silver Ores	*	*	*	*
Metal Mining Services	*	*	*	*
Miscellaneous Metal Ores	1,540	572	434	300
Bituminous Coal Mining	2,493	1,281	1,430	2,900
Crude Petroleum and Natural Gas	1,922	1,002	1,344	1,300
Crude Petroleum and Natural Gas	600	265	289	400
Oil and Gas Field Services	1,322	737	1,055	900
Mining and Quarrying of Nonmetallic Minerals, except Fuels	923	1,425	884	1,200
Sand and Gravel	197	163	168	300
Chemical and Fertilizer Mineral Min.	126	707	258	400
Misc. Nonmet. Min., exc. Fuels	600	555	458	500
Construction	*14,851*	*13,420*	*16,951*	*23,000*
Building Const. - General Contra.	4,737	3,841	4,628	6,900
Const. other than Bldg. Const. - Gen. Contractors	3,339	3,429	4,089	5,300
Highway and Street Construction	1,943	1,877	1,966	3,100
Heavy Const., exc. Highway & Street	1,396	1,552	2,123	2,200
Const. - Special Trade Contractors	6,775	6,150	8,234	10,800
Plumbing, Heating, & Air Condit.	1,556	1,564	2,092	2,700
Painting, Papering, & Decorating	633	510	498	800
Electrical Work	1,012	1,092	1,456	1,900
Masonry, Stonework, Tile Setting, & Plastering	1,512	1,038	1,203	1,600
Carpentering and Flooring	256	236	385	400
Roofing and Sheet Metal Work	522	440	526	700
Concrete Work	245	353	644	800
Water Well Drilling	53	61	66	100
Misc. Special Trade Contractors	986	856	1,364	1,800

* Not shown to avoid disclosure of individual firm data.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Manufacturing	*47,016*	*51,262*	*55,437*	*73,600*
Ordnance and Accessories	3,245	2,685	618	300
Food and Kindred Products	10,200	9,455	8,955	8,800
Meat Products	2,005	1,966	1,718	1,800
Meat Packing Plants	1,260	1,161	859	1,000
Sausages & other Prep. Meat Prod.	79	103	126	100
Poultry Dressing and Packing	666	702	733	700
Dairy Products	2,313	1,965	2,126	1,800
Creamery Butter	118	38	47	30
Cheese, Natural and Processed	160	300	441	390
Condensed & Evaporated Milk	185	112	25	20
Ice Cream and Frozen Deserts	201	171	167	160
Fluid Milk	1,649	1,344	1,446	1,200
Canned and Preserved Fruits & Veg.	1,018	792	486	400
Grain Mill Products	926	780	783	700
Bakery Products	1,509	1,284	1,216	1,300
Sugar	667	860	774	900
Candy & other Confectionary Prod.	552	563	548	600
Beverages	637	759	662	700
Misc. Food Prep. & Kindred Prod.	573	486	642	600
Textile Mill Products	195	73	103	100
Apparel and Other Finished Products	1,790	3,827	5,310	8,400
Men's, Youth's, & Boy's Suits, Coats, & Overcoats	*	*	*	*
Men's, Youth's, & Boy's Furnishings, Work Clothes, etc.	259	899	1,146	2,200
Women's, Misses', & Juniors' Outerwear	544	929	2,136	3,100
Women's, Misses', Children's, & Infants' Underwear & Nightwear	423	857	896	1,500
Girls', Children's, & Infants' Outerwear	*	*	*	*
Misc. Apparel and Accessories	*	*	*	*
Misc. Fabricated Textile Products	268	572	782	1,100
Lumber & Wood Prod., exc. Furniture	1,023	1,360	1,494	1,600
Furniture and Fixtures	672	726	1,150	1,100
Paper and Allied Products	160	335	411	600

* Not shown to avoid disclosure of individual firm data.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Printing, Pub., & Allied Industries	2,563	3,229	3,760	5,800
Chemicals and Allied Products	1,134	1,032	1,743	1,900
Petrol. Refining & Related Indus.	1,491	1,099	883	600
Petroleum Refining	1,471	1,015	820	500
Paving and Roofing Materials	20	84	63	100
Rubber & Misc. Plastic Products	373	691	778	1,800
Fabricated Rubber Prod., n.e.c.	303	527	429	900
Misc. Plastic Products	70	164	349	900
Leather and Leather Products	39	44	100	100
Stone, Clay, Glass, & Concrete Prod.	2,647	2,368	2,799	2,700
Primary Metal Industries	9,033	8,508	8,016	8,000
Pri. Metal Indus., exc. Blast Furnaces & Basic Steel Products	*	*	*	*
Blast Furnaces, & Basic Steel Prod.	*	*	*	*
Fabri. Metal Products	2,441	2,820	2,891	4,400
Fabri. Metal Prod., exc. Structural	413	601	733	2,100
Fabri. Structural Metal Products	2,028	2,219	2,158	2,300
Machinery, Except Electrical	2,265	3,517	6,592	11,600
Electrical Equipment & Supplies	880	2,659	1,914	5,000
Transportation Equipment	6,112	5,564	5,644	6,200
Trans. Equip., exc. Aircraft & Parts	426	1,080	1,760	2,000
Aircraft & Parts	5,686	4,484	3,884	4,200
Instruments and Related Products	99	391	811	2,000
Instruments & Rel. Prod., exc. Med.	70	141	142	600
Medical Instruments & Supplies	29	250	669	1,400
Misc. Manufacturing Industries	654	879	1,465	2,600
Misc. Mfg., except Jewelery	454	565	1,009	1,700
Jewelry, Silverware, & Plated Ware	200	314	456	900
Transportation, Communications, Electric, Gas, and Sanitary Services	*22,155*	*22,757*	*23,555*	*24,600*

* Not shown to avoid disclosure of individual firm data.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Railroad Transportation	7,996	6,383	5,430	3,700
Local & Interurban Pass. Transit	1,071	926	1,076	1,400
Local & Interurban Passenger Transit, except Taxicabs	680	627	781	1,100
Taxicabs	391	299	295	300
Trucking and Warehousing	4,549	5,557	6,880	7,400
Transportation by Air	590	944	1,043	1,500
Pipe Line Transportation	*	*	*	*
Transportation Services	352	867	455	800
Trans. Services, exc. Misc. Services Incidental to Transportation	332	299	331	700
Misc. Services Incidental to Transp.	20	568	124	100
Communication	4,376	4,707	5,080	5,300
Communication, exc. Telephone and Telegraph	*	*	*	*
Telephone Communication	*	*	*	*
Telegraph Communication	*	*	*	*
Electric, Gas, and Sanitary Services	3,120	3,315	3,517	4,400
Electric, Gas, & San. Serv., n.e.c.	205	216	257	400
Electric Companies & Systems	1,842	1,826	1,939	2,600
Gas Companies and Systems	1,073	1,273	1,321	1,400
Wholesale Trade	*15,380*	*18,761*	*20,739*	*27,200*
Motor Veh. & Automotive Equip.	1,757	2,432	2,839	3,800
Auto. & Other Motor Vehicles	524	753	692	900
Automotive Equipment	961	1,384	1,792	2,500
Tires and Tubes	272	295	355	400
Drugs, Chemicals, & Allied Products	1,047	1,044	1,073	1,100
Drugs, Proprietaries, & Sundries	464	551	606	600
Paints and Varnishes	357	210	191	200
Chemicals & Allied Prod., n.e.c.	226	283	276	300
Dry Goods and Apparel	98	231	268	200

* Not shown to avoid disclosure of individual firm data.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Groceries and Related Products	2,227	2,214	2,620	2,800
Farm Products and Raw Materials	552	487	480	400
Electrical Goods	1,174	1,515	1,598	2,300
Elec. Apparatus & Equipment	361	586	701	1,100
Elec. Appliances, TV, & Radios	680	764	635	800
Electronic Parts & Equipment	133	165	262	400
Hardware; Plumbing & Heating Equip.	1,245	1,186	1,265	1,600
Hardware	737	622	565	700
Plumbing & Heating Equipment	388	457	548	700
Air Condi. & Refrigeration	120	107	152	200
Machinery, Equipment, & Supplies	3,132	3,952	4,477	6,000
Miscellaneous Wholesalers	4,148	5,700	6,119	9,000
Metals & Minerals, exc. Petroleum	215	284	387	500
Petroleum & Petroleum Products	1,185	1,984	1,909	2,900
Scrap and Waste Materials	314	368	399	600
Tobacco and Its Products	105	103	104	100
Beer, Wine, & Distilled Beverages	137	176	197	200
Paper and Its Products	601	624	690	1,000
Furniture and Home Furnishings	215	275	322	400
Lumber and Construction Materials	501	585	745	1,000
Wholesalers, n.e.c.	875	1,301	1,366	2,300
Retail Trade	*44,204*	*52,781*	*62,578*	*82,000*
Bldg. Materials & Farm Equipment	3,707	3,169	3,690	4,000
Retail General Merchandise	7,254	8,572	9,893	13,000
Food Stores	6,331	8,554	9,402	12,200
Automotive Dealers & Serv. Stations	7,843	8,945	10,305	13,400
Automotive Dealers	4,358	4,812	5,759	8,000
Gasoline Service Stations	3,485	4,133	4,546	5,400
Apparel and Accessory Stores	2,389	2,761	3,360	4,700
Furniture and Home Furnishing Stores	2,731	2,546	2,793	3,100
Eating and Drinking Places	9,147	12,204	15,691	21,700
Eating Places	8,316	11,199	14,638	20,700
Drinking Places	831	1,005	1,053	1,000

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Miscellaneous Retail Stores	4,802	6,030	7,444	9,900
Finance, Insurance, & Real Estate	*11,292*	*12,912*	*15,648*	*21,500*
Banking	3,208	3,975	5,079	7,100
Banking, exc. Federal Res. Bank	*	*	*	*
Federal Reserve Banks	*	*	*	*
Credit Agencies other than Banks	1,925	2,403	2,422	3,200
Security, Commod. Brokers & Serv.[1]	531	434	750	1,200
Insurance Carriers	2,249	2,484	2,741	4,000
Insurance Agents, Brokers, & Services	803	1,084	1,203	1,700
Real Estate[2]	2,576	2,532	3,453	4,300
Services	*33,073*	*48,964*	*60,815*	*95,600*
Hotels and other Lodging Places	2,879	3,229	3,746	5,800
Personal Services	3,657	4,627	4,481	7,800
Laundries & Dry Cleaning Plants	1,990	2,248	2,060	2,900
Photographic Studios	166	209	214	300
Beauty Shops	780	1,493	1,502	3,400
Barber Shops	203	170	120	300
Shoe Repair & Hat Cleaning Shops	104	88	105	300
Funeral Service & Crematories	183	218	235	300
Garment Pressing, Alter., & Repair	152	82	46	100
Misc. Personal Services	79	119	199	200
Miscellaneous Business Services	2,815	4,623	6,764	11,500
Auto Repair, Services, & Garages	1,572	1,890	2,164	4,600
Miscellaneous Repair Services	718	1,092	1,334	2,600

* Not shown to avoid disclosure of individual firm data.

[1] Includes Holding and other Investment Companies.

[2] Includes Combined Real Estate, Insurance, etc.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Motion Pictures	1,280	1,354	1,428	2,000
Amusement & Recreation Serv., n.e.c.	1,631	2,328	3,006	3,800
Medical & Other Health Services	6,426	10,854	13,920	22,200
Offices of Physicians & Surgeons	1,321	1,877	2,476	3,600
Offices of Dentists & Den. Surg.	473	737	1,013	1,430
Offices of Osteopathic Physicians	19	26	31	35
Offices of Chiropractors	11	21	27	25
Hospitals	3,927	6,471	7,985	13,600
Medical Laboratories	33	90	105	180
Dental Laboratories	53	62	76	110
Sanatoria, Convalescent & Rest Homes	518	1,469	2,026	2,920
Health & Allied Services, n.e.c.	71	101	181	300
Legal Services	427	676	933	1,300
Educational Services	3,557	7,632	9,349	15,000
Elementary and Secondary Schools	*	*	*	*
Colleges and Universities	*	*	*	*
Correspondence & Vocational Schools	*	*	*	*
Schools & Educational Serv., n.e.c.	*	*	*	*
Nonprofit Membership Organizations[1]	5,195	7,389	9,342	12,300
Miscellaneous Services[2]	2,916	3,270	4,348	6,700
Government	*63,130*	*97,956*	*102,928*	*129,000*
Federal Government	28,059	44,323	40,577	41,200
Federal Defense	17,751	30,535	26,623	20,400
Post Offices	2,754	2,953	3,024	3,600
Agricultural Department	1,777	2,258	2,203	1,900
Treasury Department	892	2,653	3,338	3,800
Other Federal	4,885	5,924	5,389	11,500
State Government	11,676	20,974	24,737	37,800
Hospitals	669	1,659	2,017	3,400

* Not shown to avoid disclosure of individual firm data.

[1] Includes estimate for retroactive liability.

[2] Includes Museums, Botanical, and Zoological Gardens.

UTAH NONAGRICULTURAL PAYROLL EMPLOYMENT BY INDUSTRY

Industry	Employment 1960	1967	1971	Proj. 1980
Schools	5,634	11,972	14,474	22,600
Other State Government	5,373	7,343	8,246	11,800
Local Government	23,395	32,659	37,614	50,000
Hospitals	893	1,060	1,240	2,000
Schools	14,169	21,446	25,426	33,000
Other Local Government	8,333	9,566	10,542	14,400
Neighborhood Youth Corp	0	587	406	600